

FIG. 2A

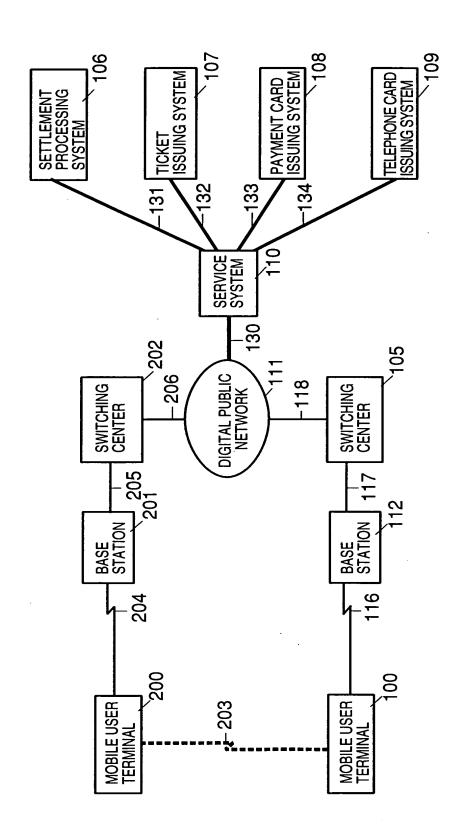
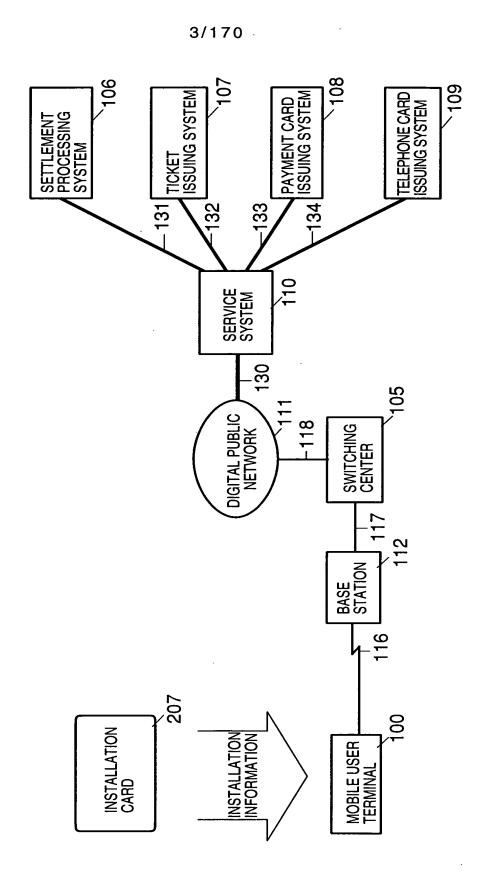
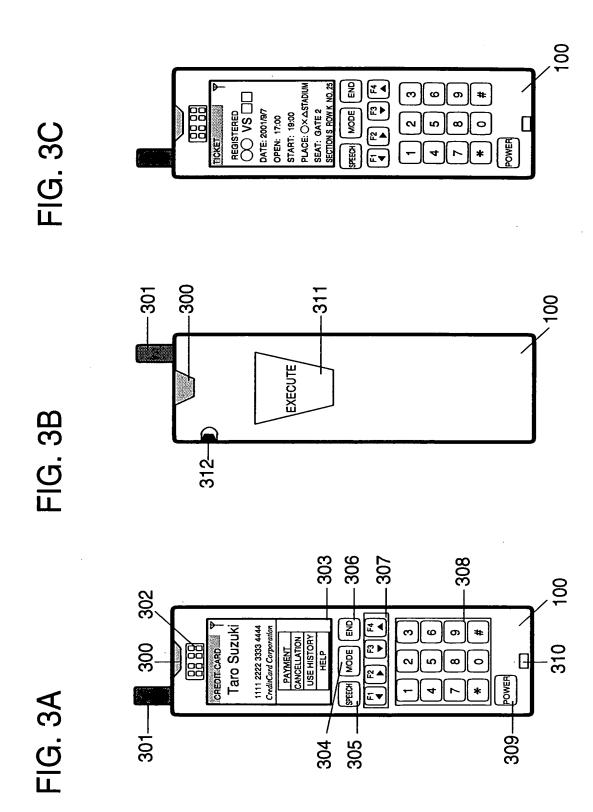


FIG. 2B







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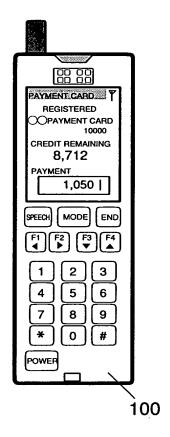
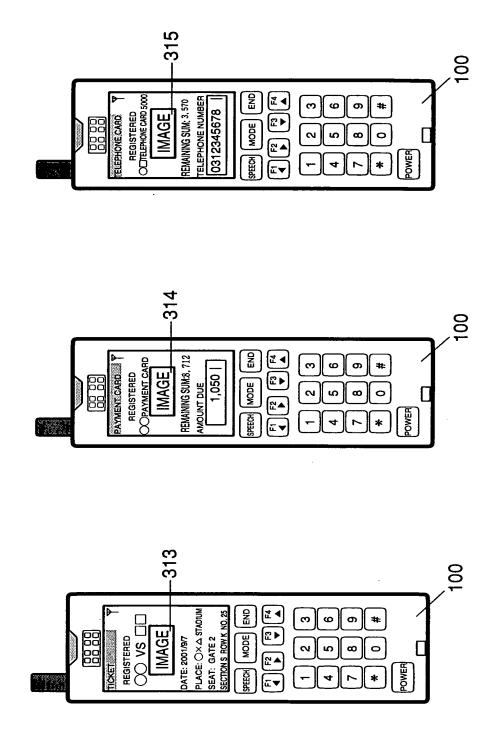


FIG. 3E



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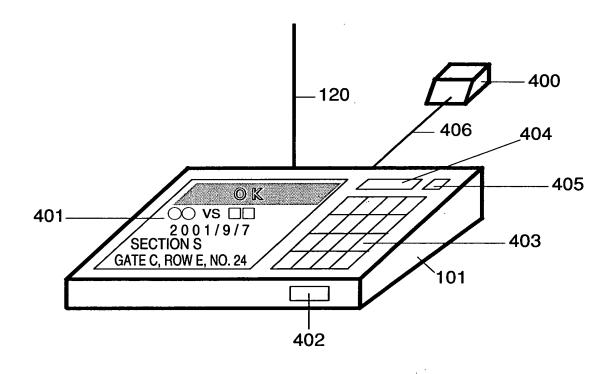


MOBILE USER TERMINAL

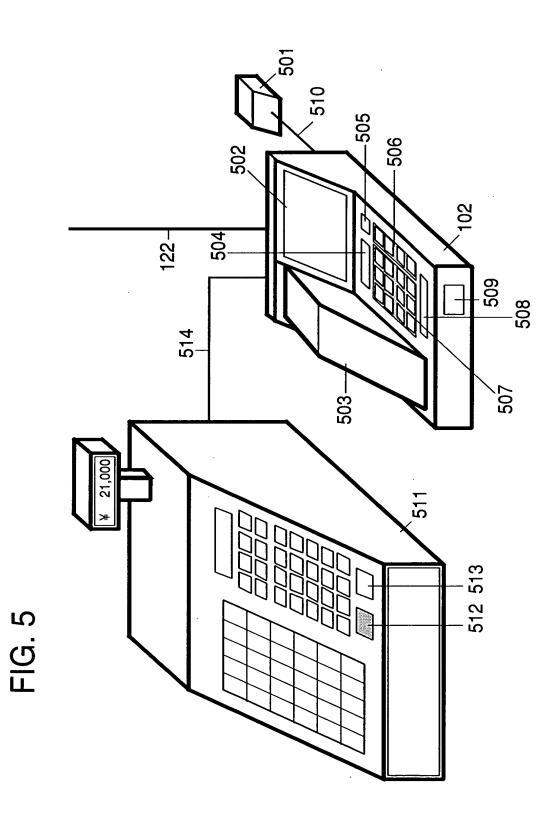
FIG. 3H

FIG. 3G

FIG. 4

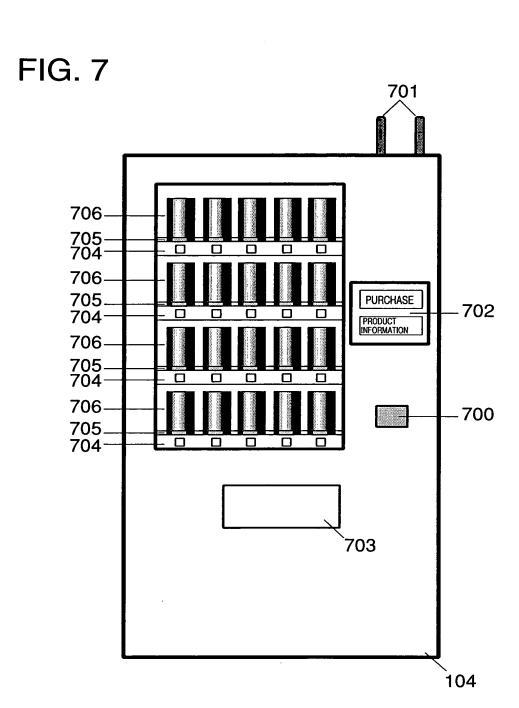


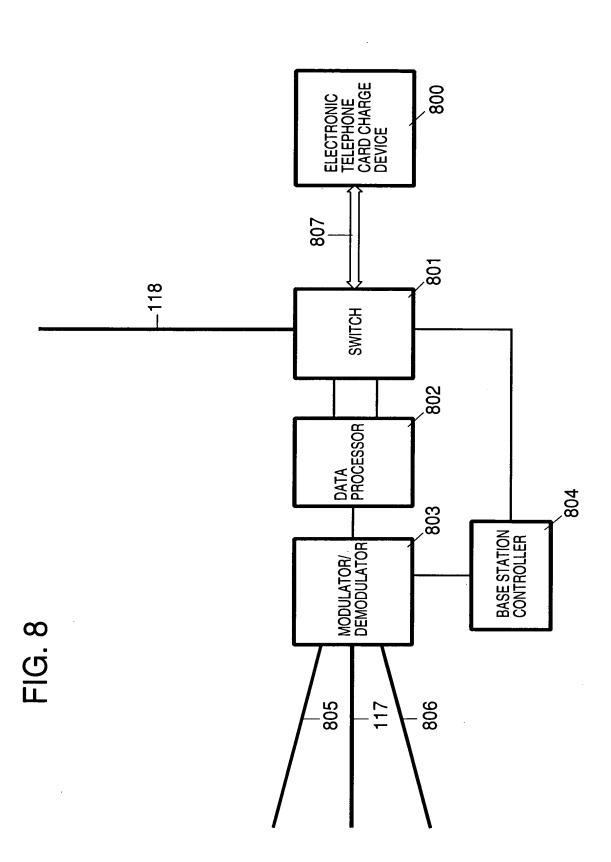


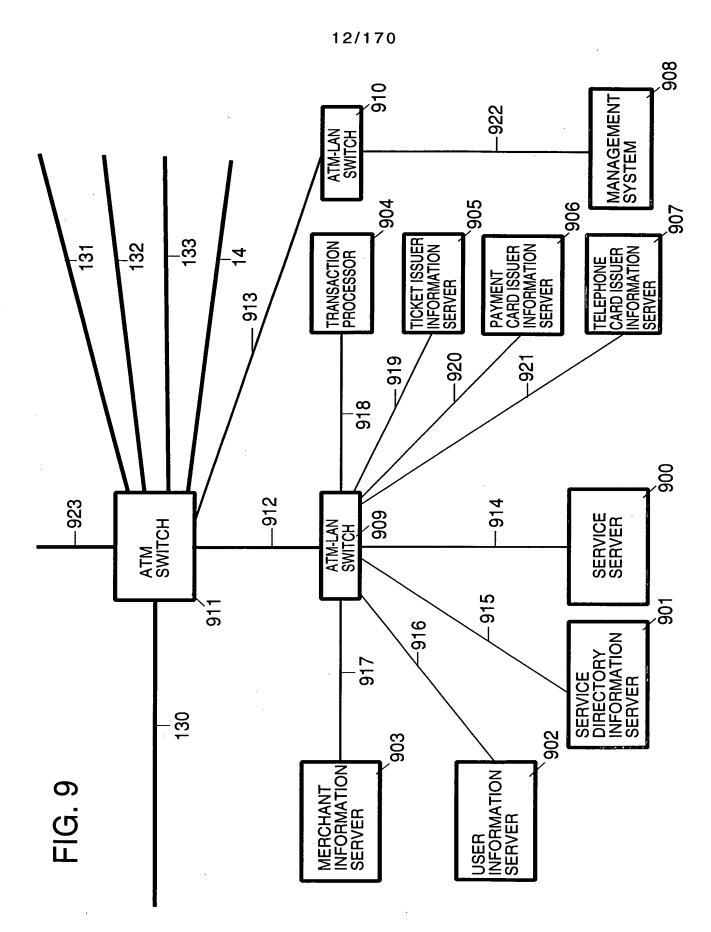


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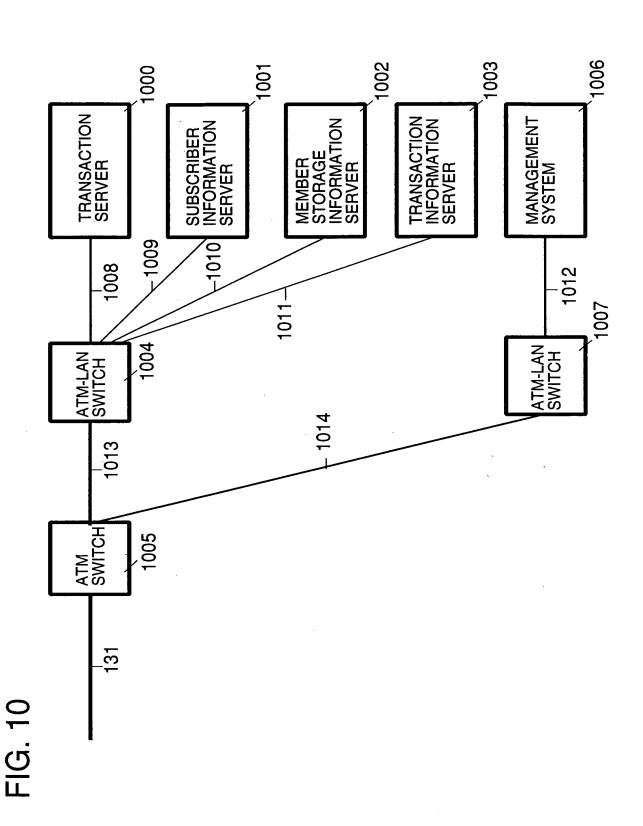
FIG. 6B FIG. 6A 600 602 600 601 601-00 00 613-09L'9E\* POWER 611 **BUJAV JATOT** ITEM B SUBTOTAL TOTAL 092'58 092'58 000'98\* 000'01# **EXECUTE** ¥20,000 TEM A 603 7/6/1002 612 CASH PAYMENT CREDIT CARD CARD 604 605 EPEECH MODE END 606 607 1 2 3 ÷ 614 6 4 5 × 608 7 9 8 0 # + TOTAL 103 103 609 610 610



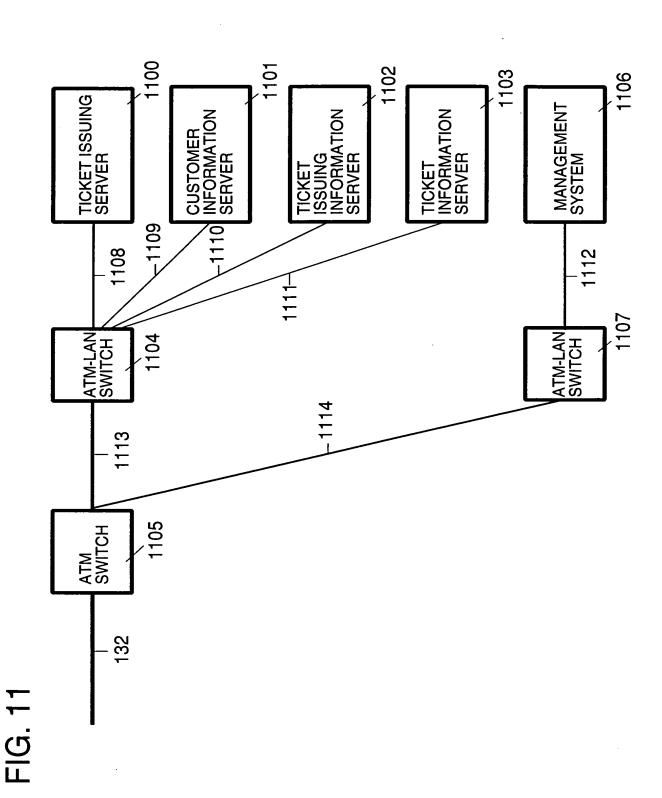




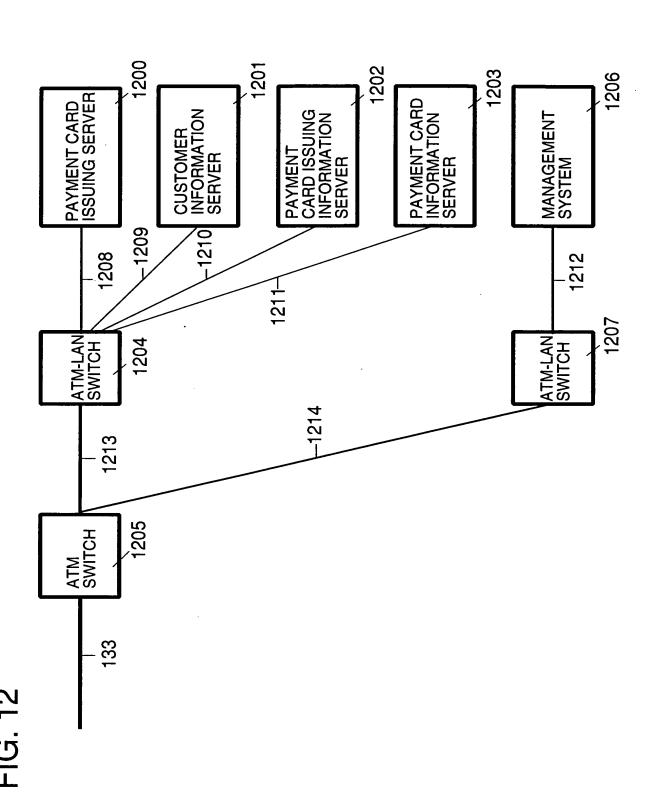
13/170



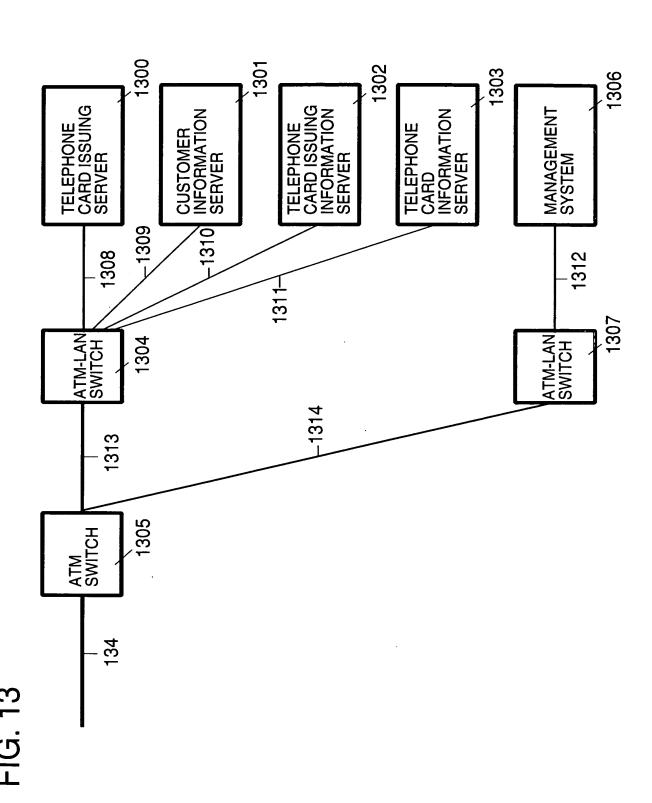
14/170

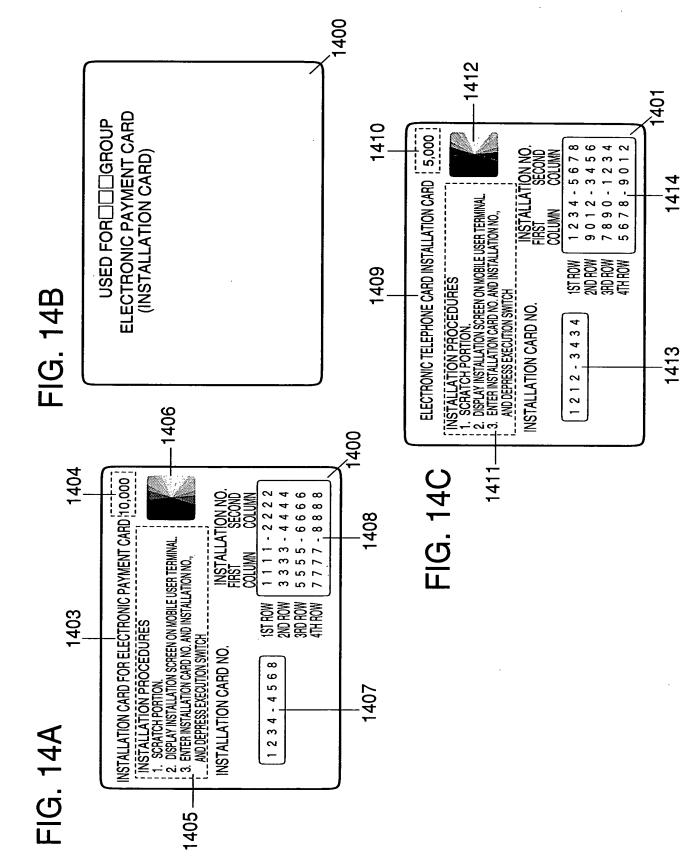


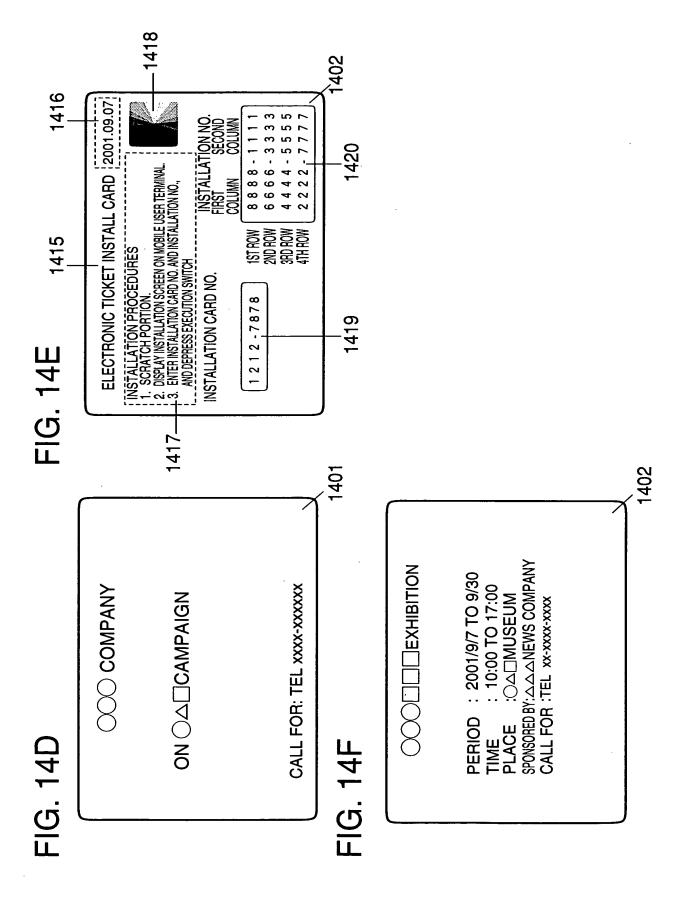
15/170

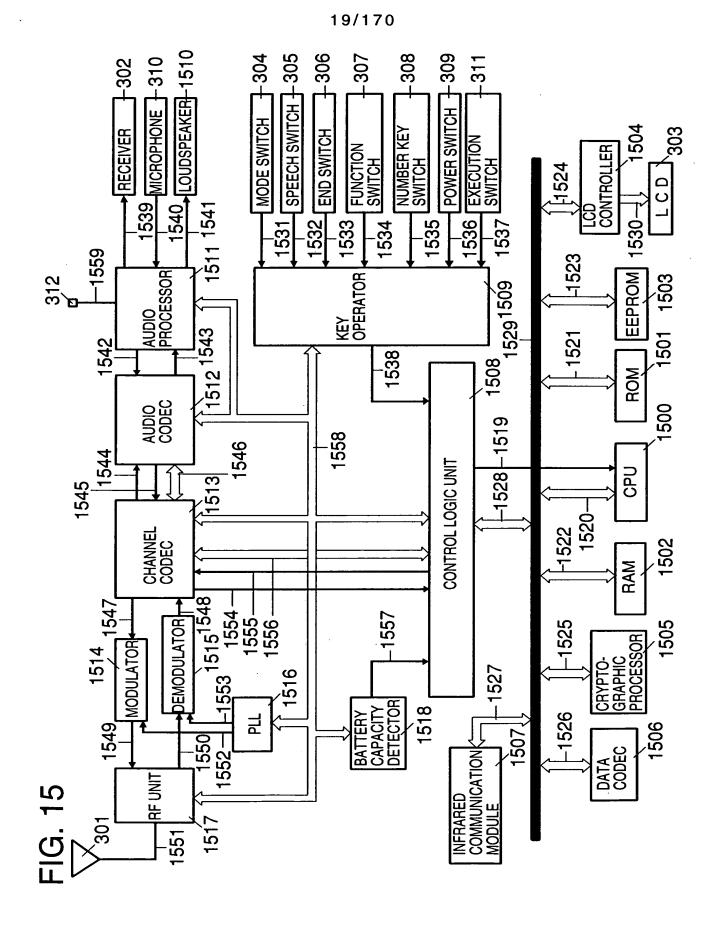


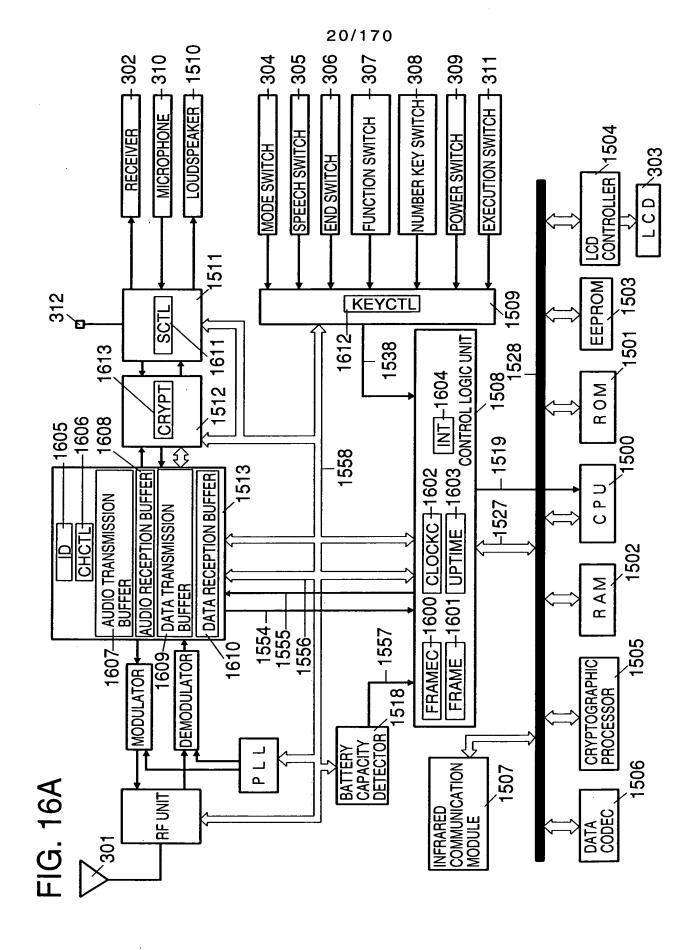
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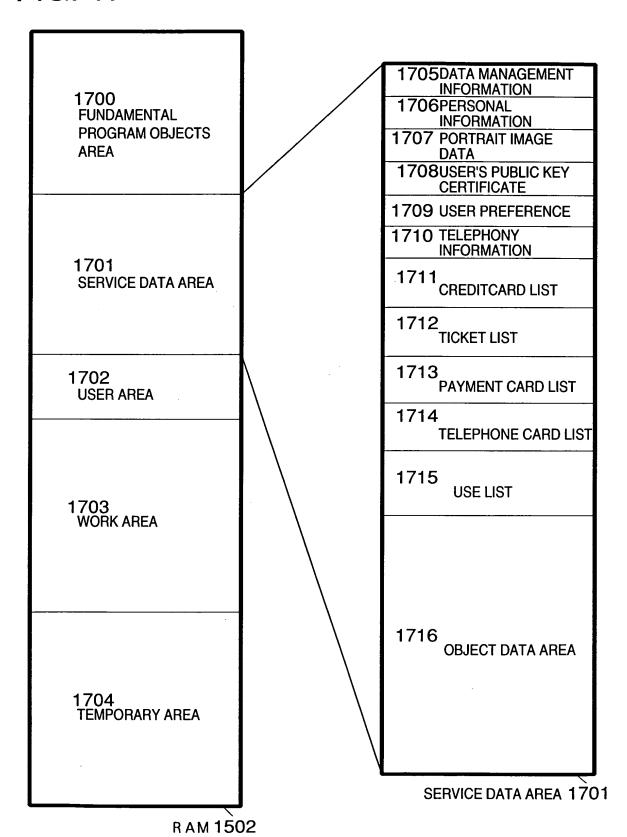




## FIG. 16B

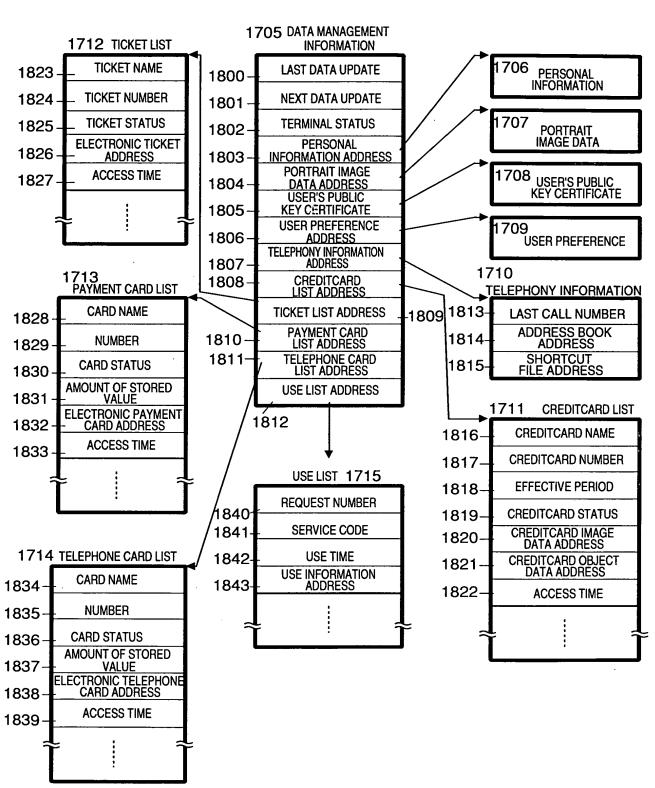
217170				
16	"POWER"	0		
17	'EXECUTE"	-		
8	"MODE"	2	7	
19	"END" "SPEECH" "MODE" 'EXECUTE' "POWER'	ဗ	3	
20 19 18 17 16	"END"	4	4	
51		5	: 5	
22 21		9	. 9 .	
23		7		
24	KEY IINTERRUPT	80		
	Battery Interrupt	6	= ດ =	
26 25	UPDATE VINTERRUPT	10	= * =	
27	DATA NRECEPTION INTERRUPT	=	# :	
28 27	CALL RECEPTION INTERRUPT	14 13 12	т Т	
59	FRAME INTERRUP	13	"F 2	
30	WIRELESS TELEPHONE DISPLAY	14	 E 	
31 30	POWER WIRELESS FRAME DISPLAY DISPLAY	15	INT "F4" "F3" "F2" "F1"	
	L N		N N	

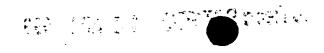
FIG. 17

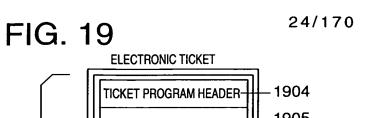


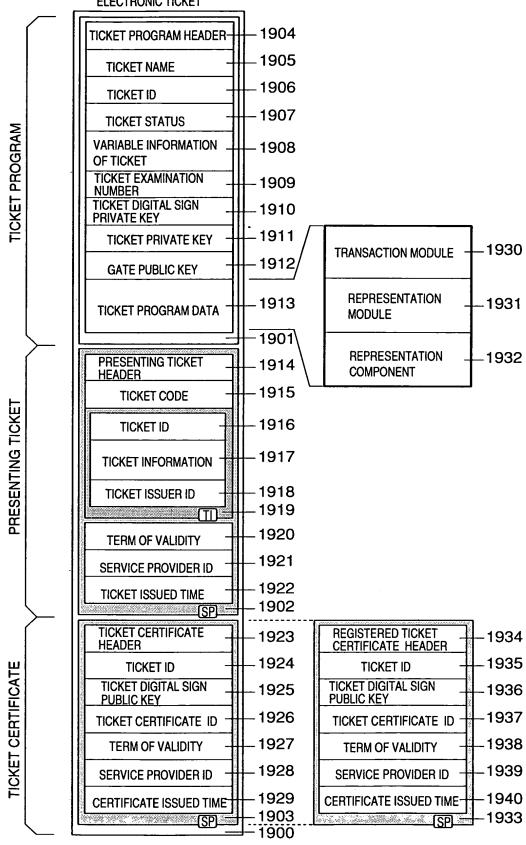
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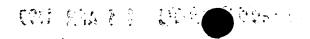
FIG. 18

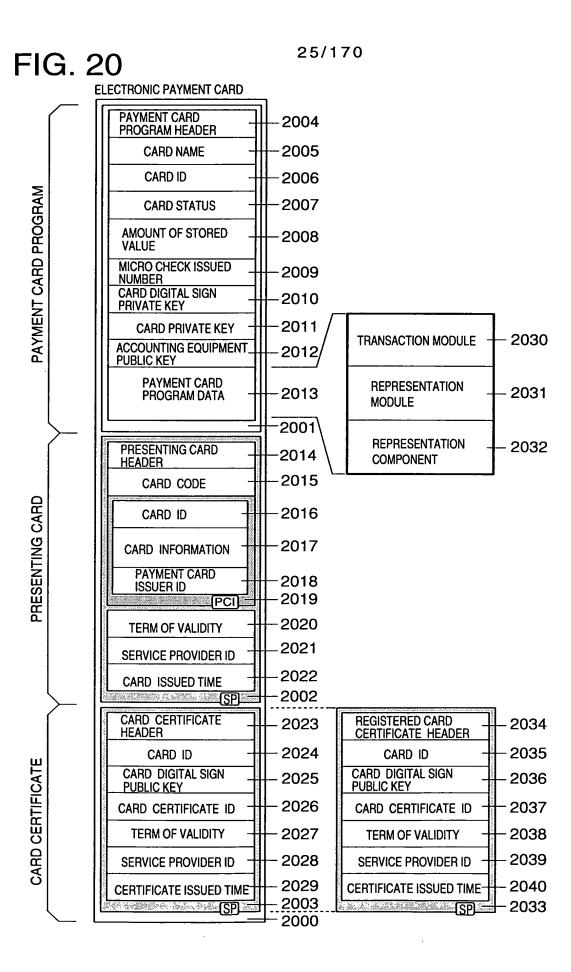






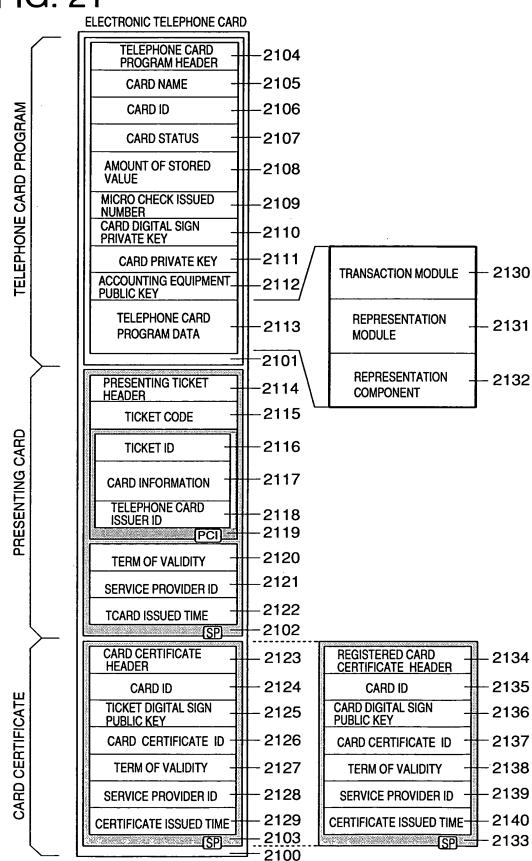


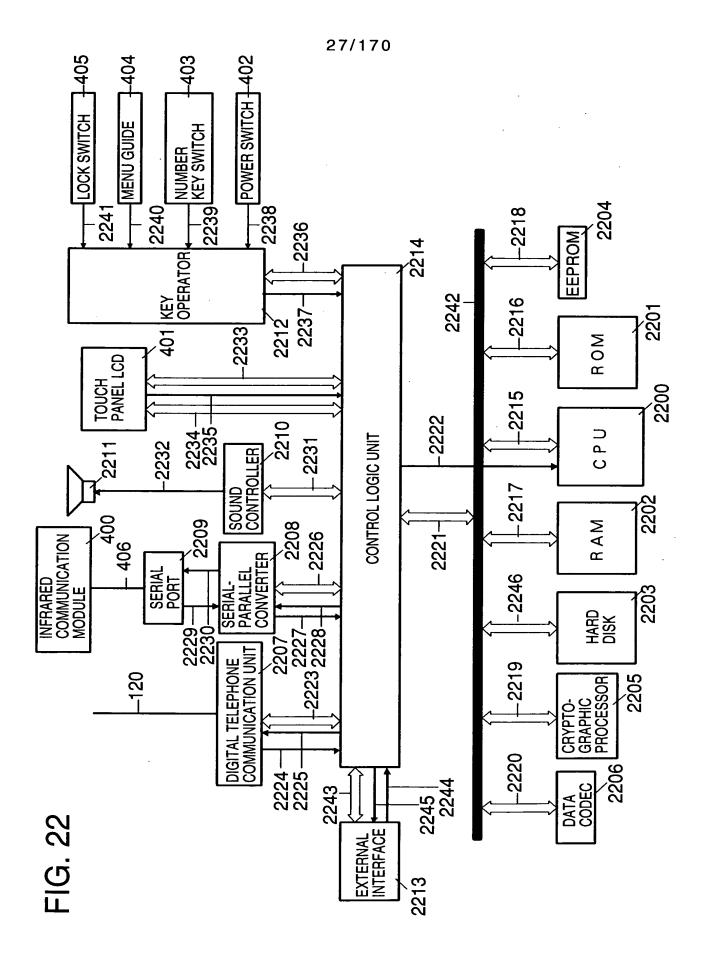












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## FIG. 23B

	29/170				
16	"POWER"	0	.0		
20 19 18 17 16	"LOCK" "POWER	-	=		
18	"MENU"	8	2		
6		က	= m		
20		4	. 4		
2		2	: :		
22		ဖ	9		
23		7	2		
24	KEY INTERRUPT	80	&		
26 . 25	External If Interrupt	တ	6		
26	UPDATE EXTE	10	<del>-</del> *		
27	DATA RECEPTION INTERRUPT	11	#		
28	INFRARED RECEPTION INTERRUPT	12	"F1"		
59	TOUCH PANEL INTERRUPT	13	"F 2"		
30	PHONE SPEECH DISPLAY	14	NT "F4" "F3" "F2" "F1"		
31	POWER DISPLAY	15	"F 4"		
	Σ		Ϊ		



FIG. 24

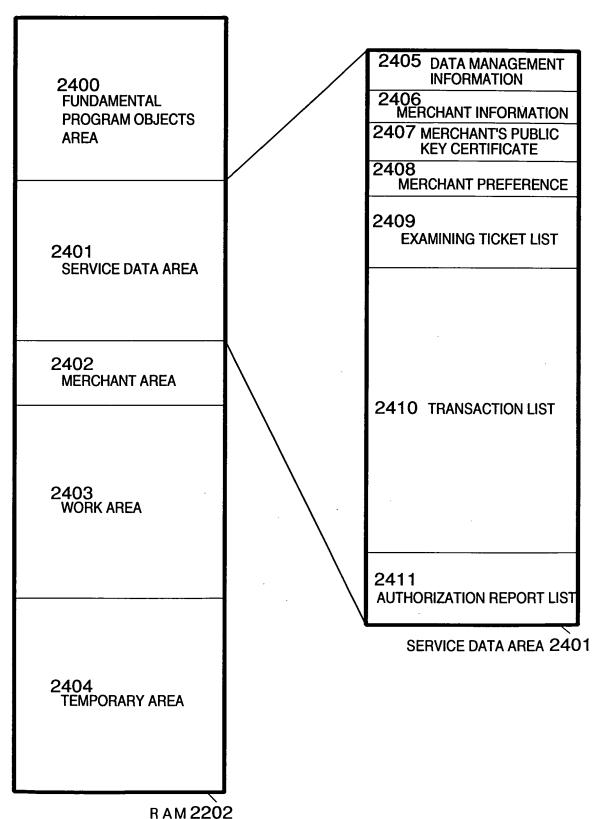
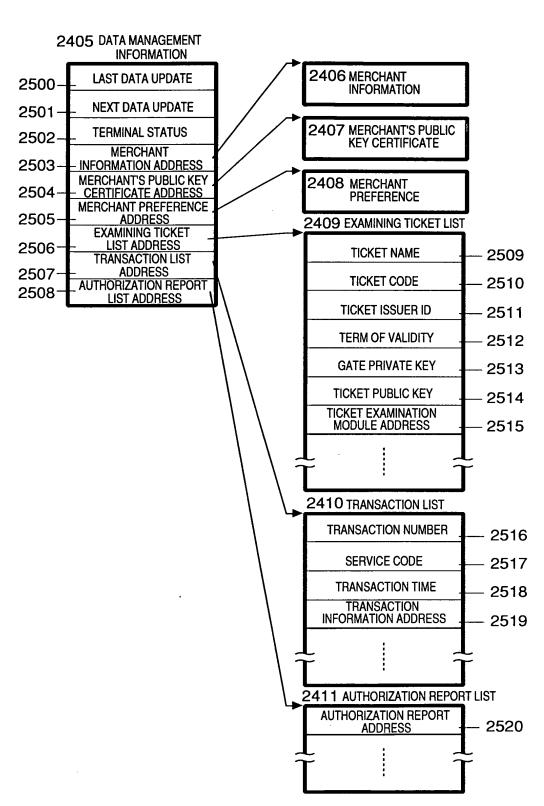
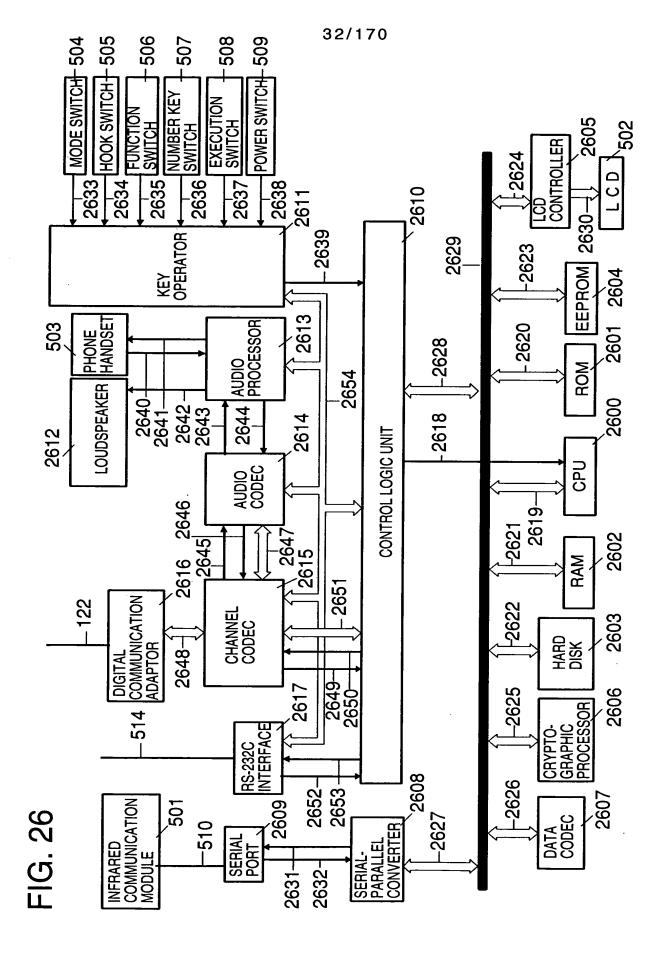
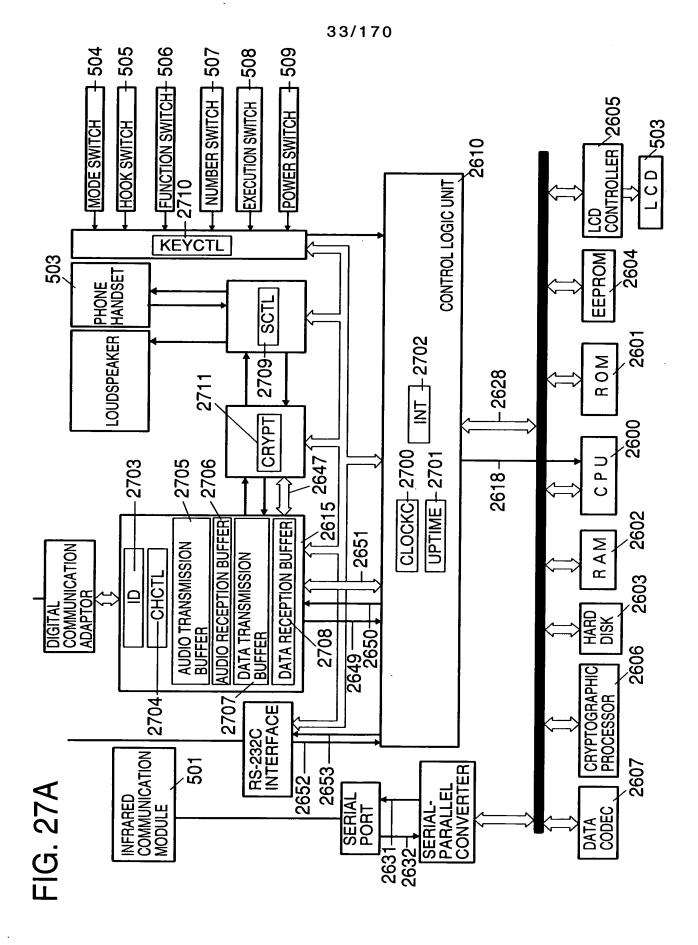




FIG. 25







## FIG. 27B

THE THE PERSON

	34/170			
16	"POWER"	0	. 0 .	
20 19 18 17 16	MODE" "EXECUTE"	-	= -	
8	"MODE"	7	"5"	
9		က	.4" "3"	
20	"HOOK"	4	4	
2		2	" 2 "	
22		9	9	
23		7	2 8	
24	Key Interrupt	8	= & =	
25	PDATE EXTERNAL FERRUPT IF INTERRUPT	6	. 6	
26	UPDATE Interrupt	10	= *	
27	DATA RECEPTION INTERRUPT	11	# ::	
28 27	CALL RECEPTION INTERRUPT	12	"F1"	
29		14 13 12 1	"F 2"	
30	TELEPHONE DISPLAY	14	"F 3"	
31	POWER DISPLAY	15	NT"F4" "F3" "F2"	
	F		Z	



FIG. 28

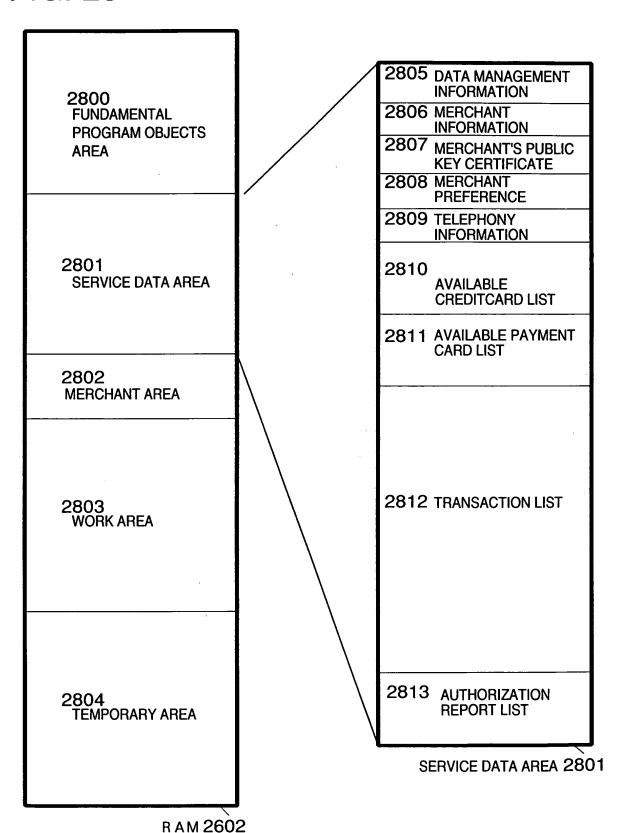
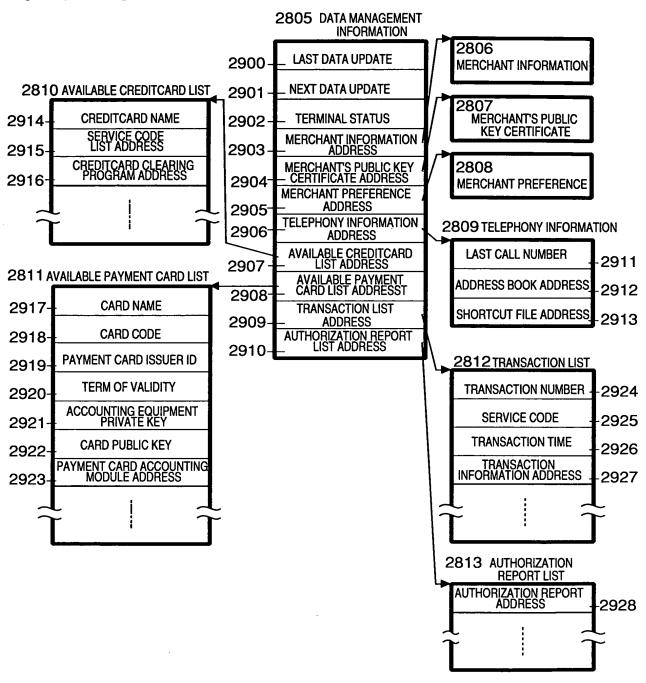
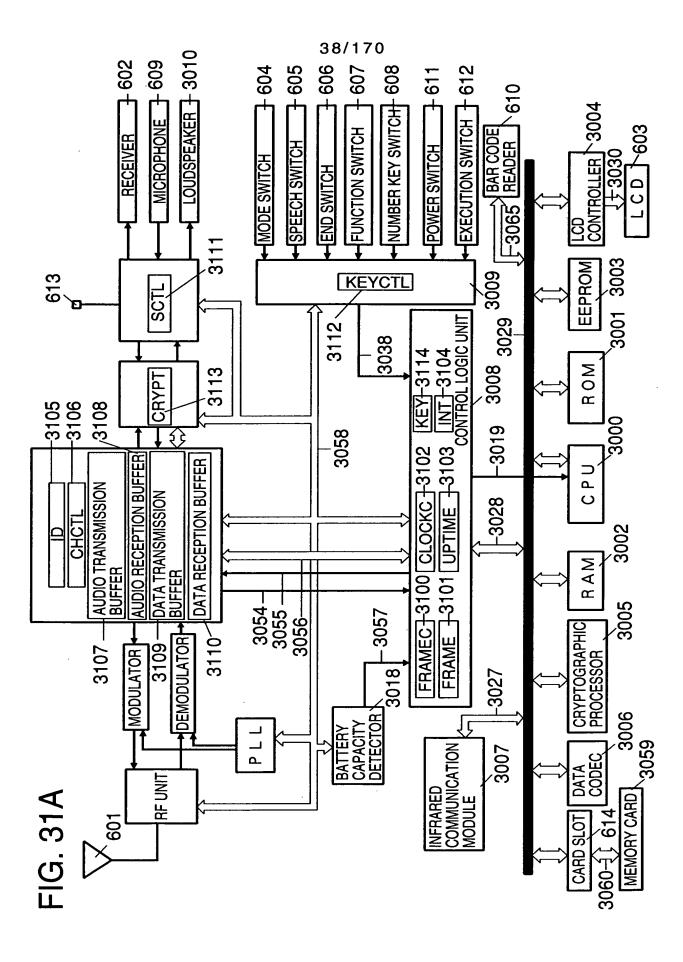


FIG. 29



ven.



# FIG. 31B

	gradiana	
	91	
	. 71	
·	<u>€</u>	
	<u>0</u>	
	50	
	2	
	22	·
	23	
	24	KEY NTERRUPT
	25	BATTERY Interrupt
	26	UPDATE INTERRUPT
	27	DATA RECEPTION INTERRUPT
	28	CALL RECEPTION INTERRUPT
	59	FRAME INTERRUPT
	31B	WIRELESS TELEPHONE DISPLAY
	FIG. 31B	POWER DISPLAY
	<b>LL</b> ·	Ę

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# FIG. 31C

<b>(</b> 0	E E	]	=
16	MOd	0	
17	"EXECUTE	-	=
18	"MODE"	2	5
19 18 17 16	"END" SPEECH" "MODE" EXECUTE" POWER	က	"E"
20	"END"	4	" 4 "
21		5	. 2
22		9	9
23		7	2
24		8	# 8 #
25	"MUS"	6	# 6 #
56	=	10	= * =
27	: · : -	1	# =
28	<u></u>	12	т -
53	" "	13	"F 2"
31 30	‡	15 14 13 12 11	KEY "F 4" "F 3"
31	<u>"</u>	15	"F 4"
	KEY		KEY

FIG. 32

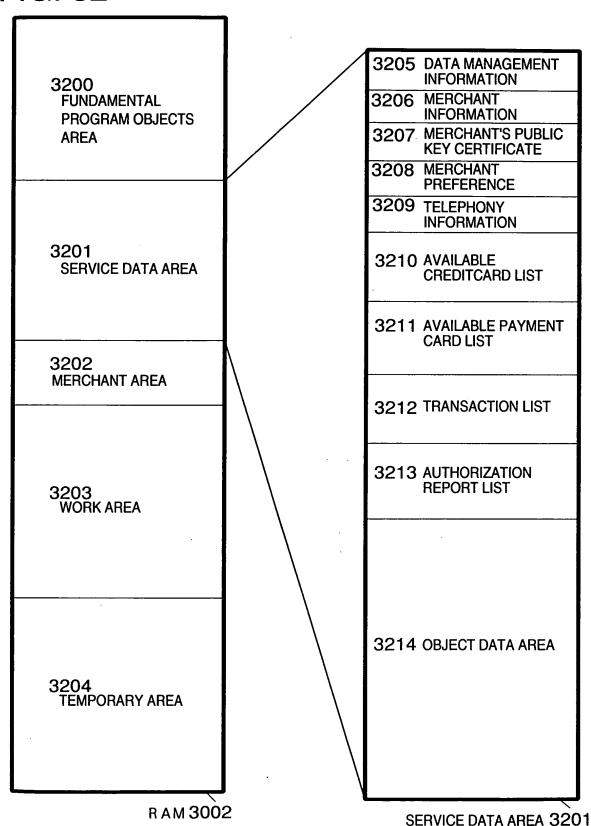
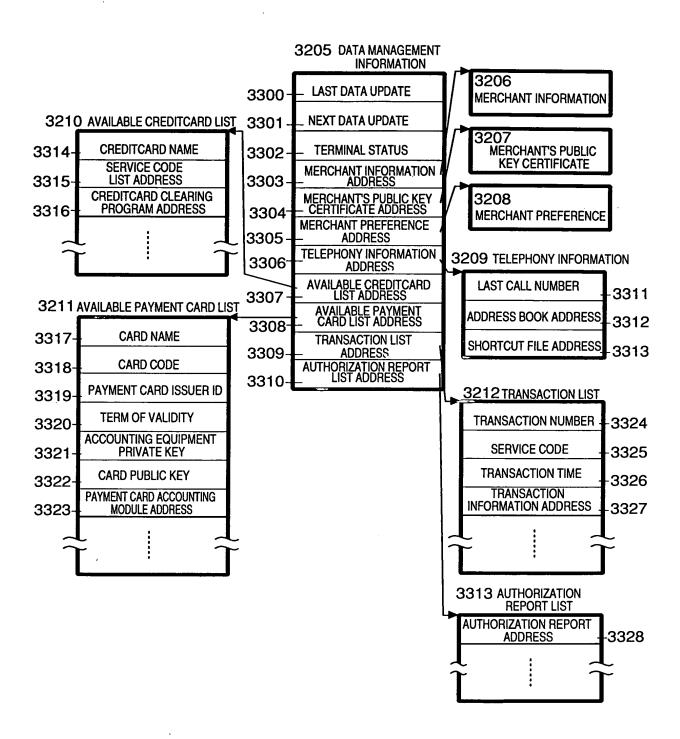
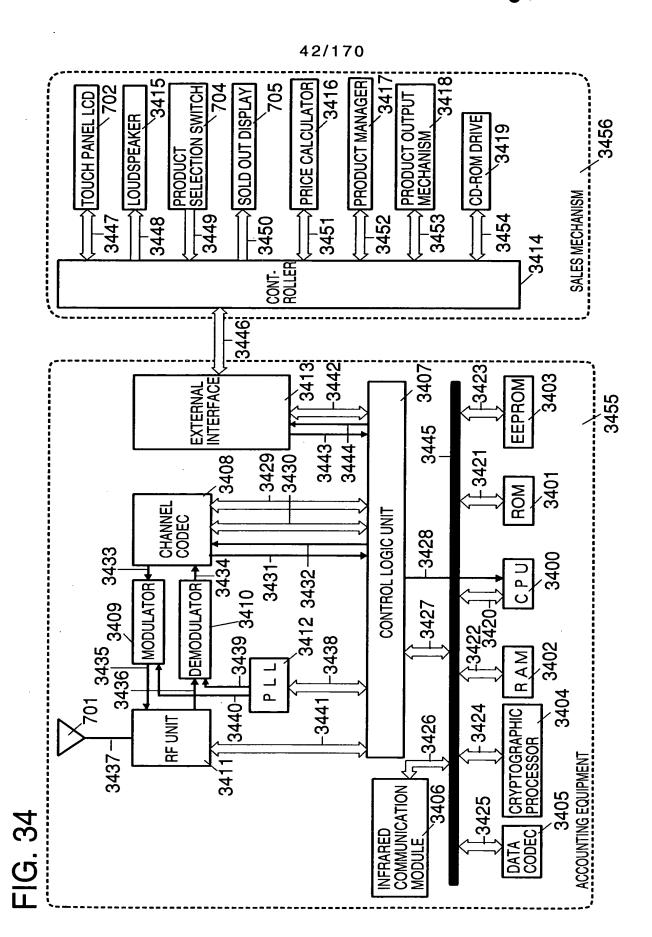


FIG. 33





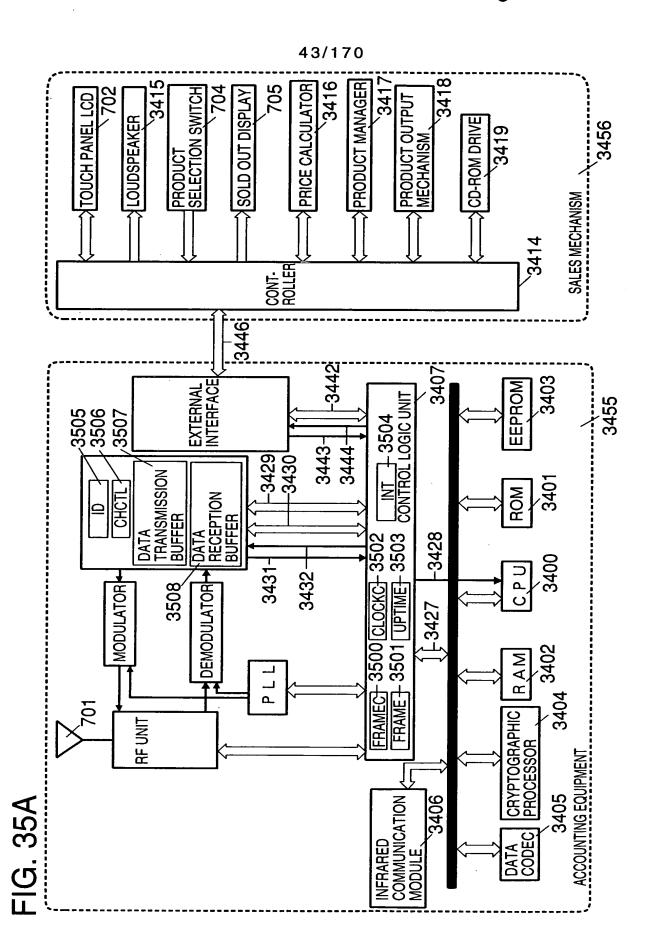
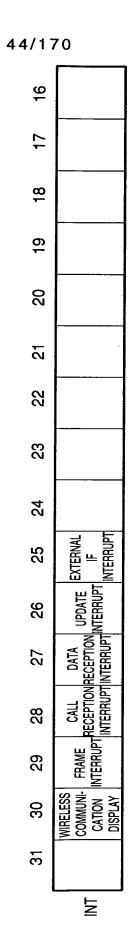


FIG. 35B





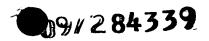
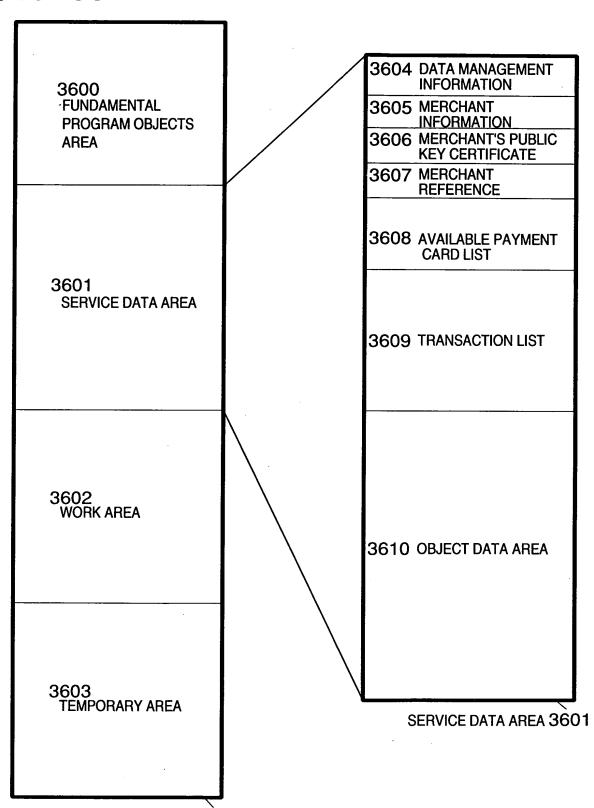


FIG. 36



RAM 2602

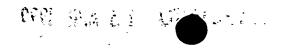


FIG. 37

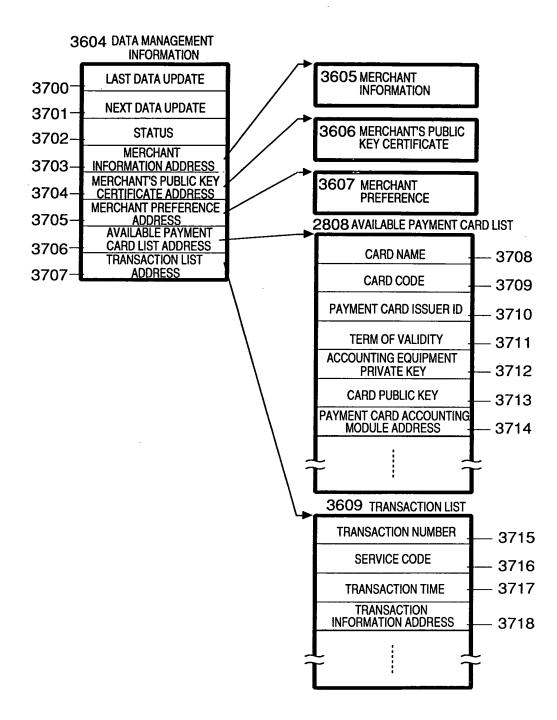


FIG. 38

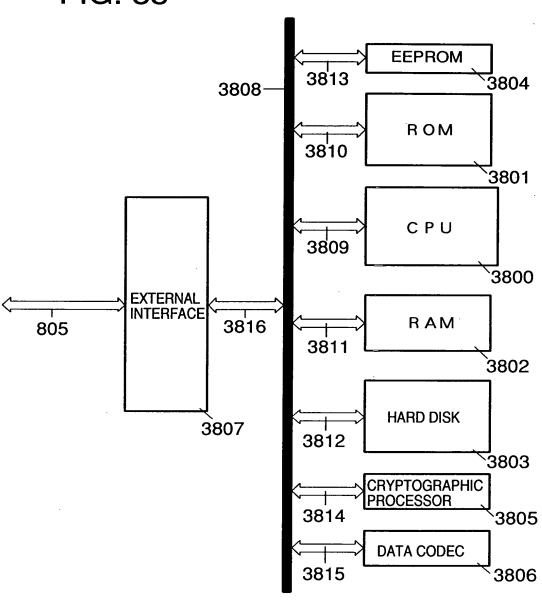
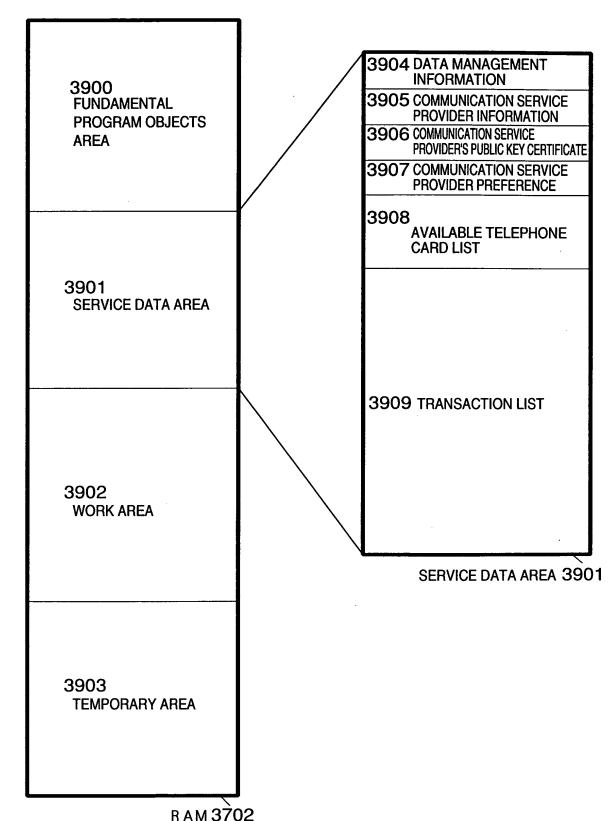
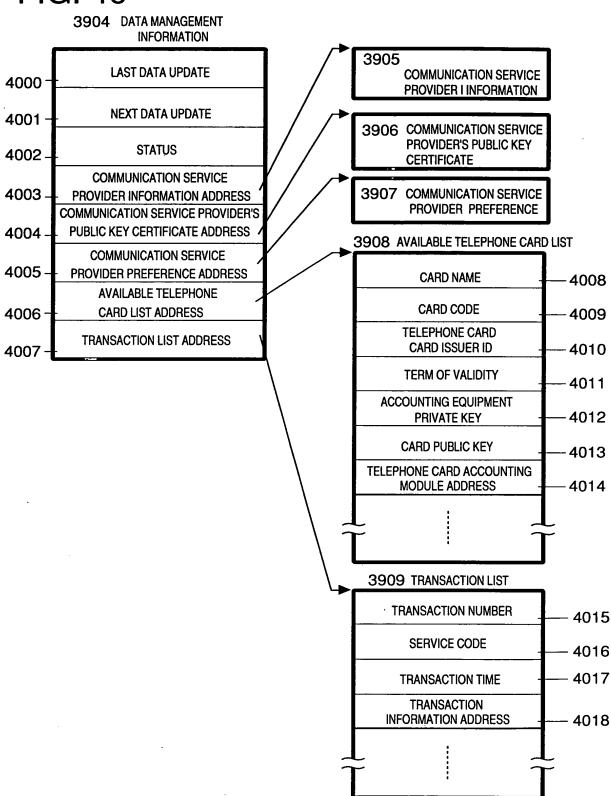


FIG. 39

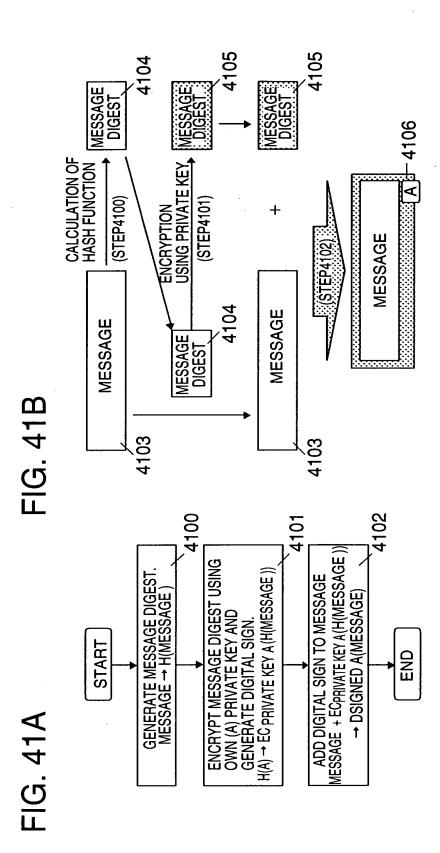


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FIG. 40



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## FIG. 42A

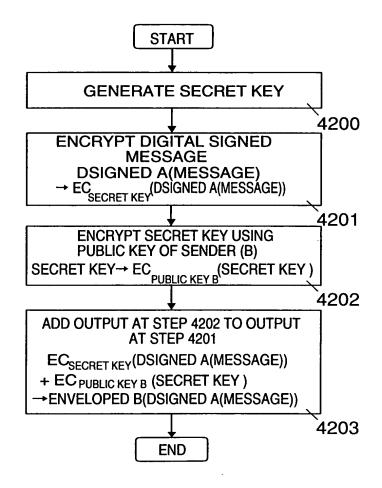
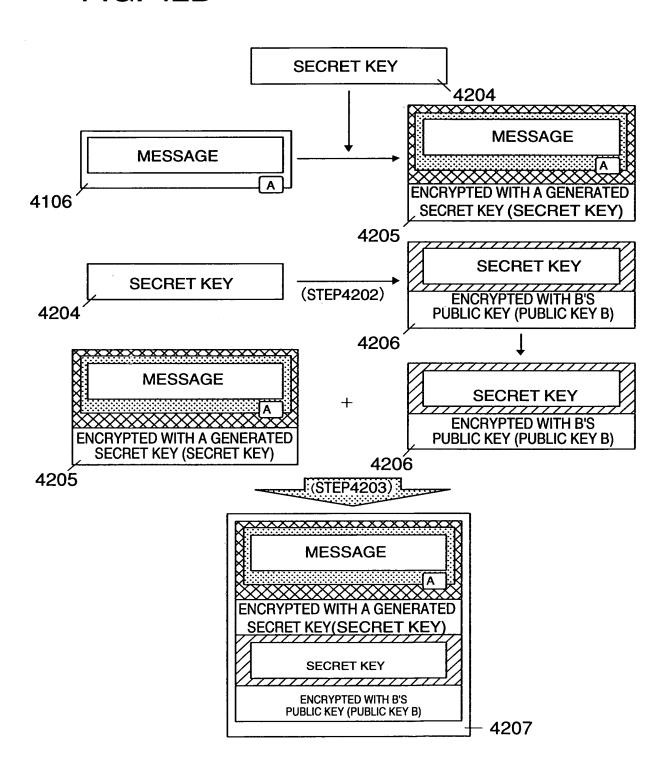


FIG. 42B

The second of th



# FIG. 43A

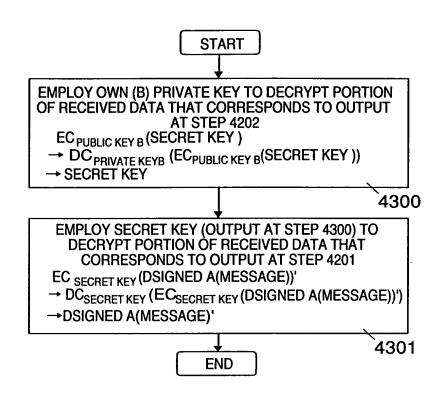


FIG. 43B

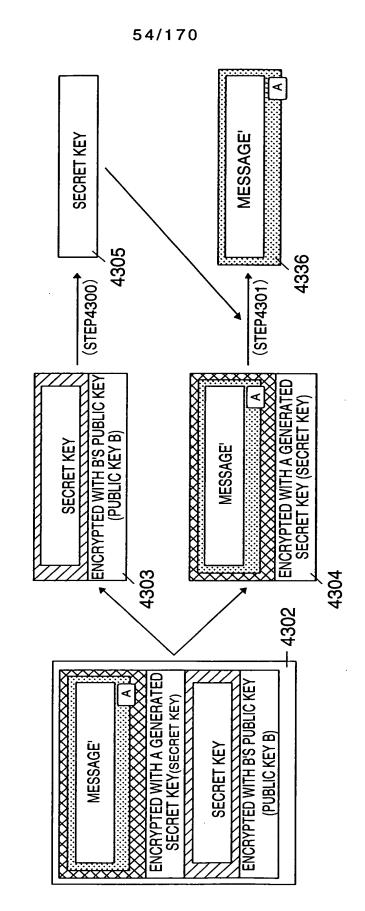


FIG. 44A

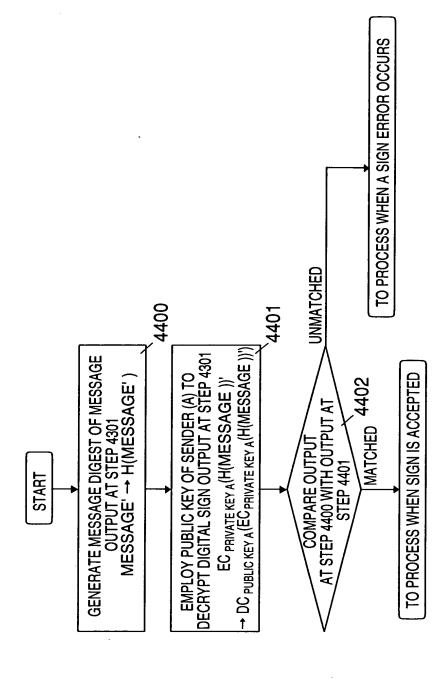
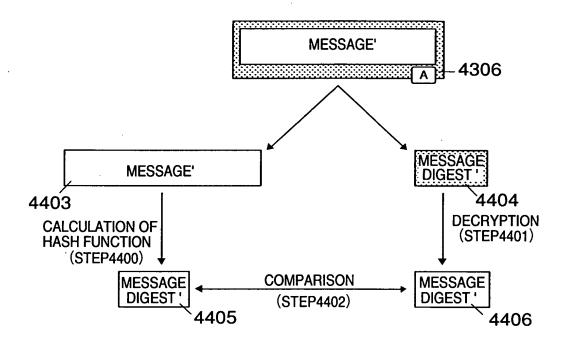
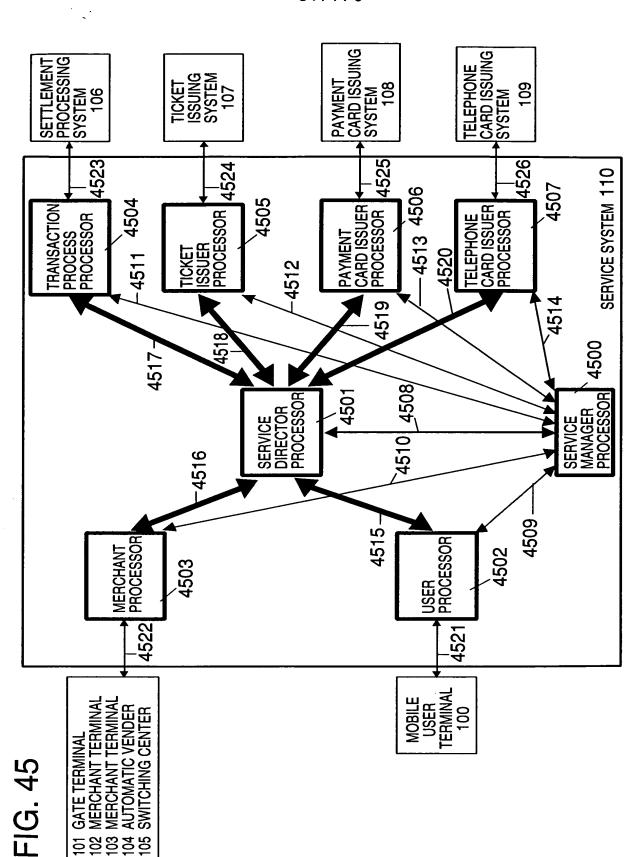
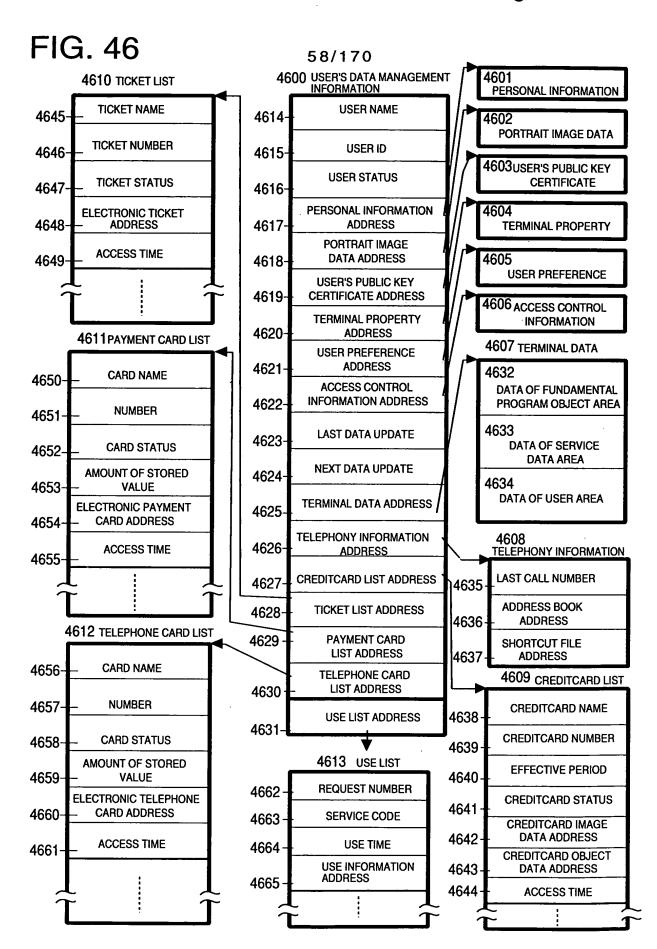


FIG. 44B



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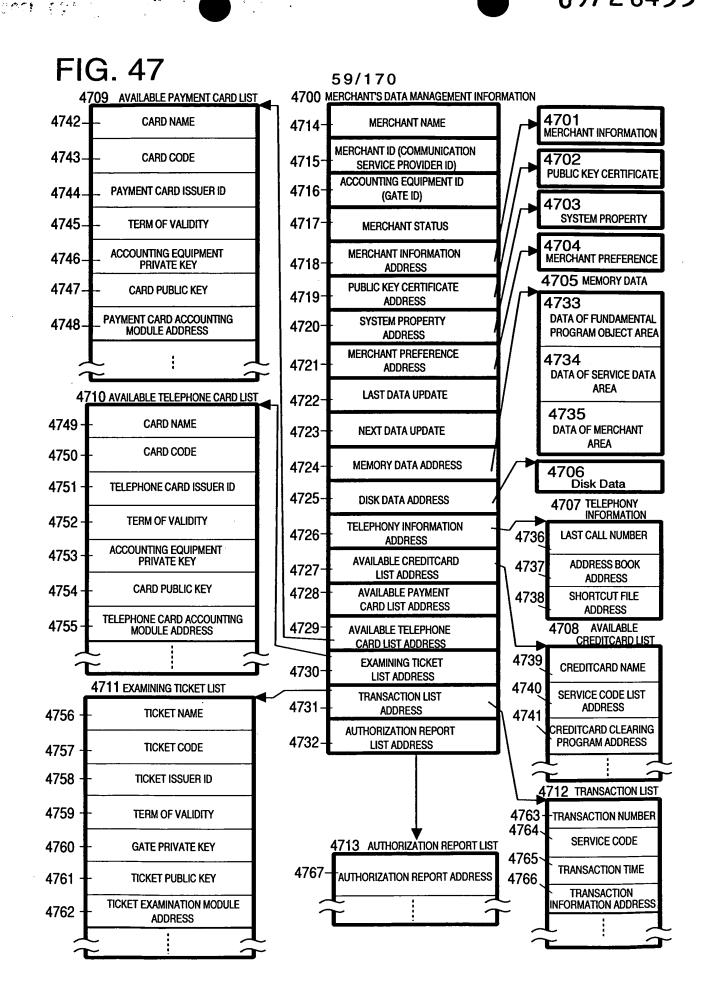
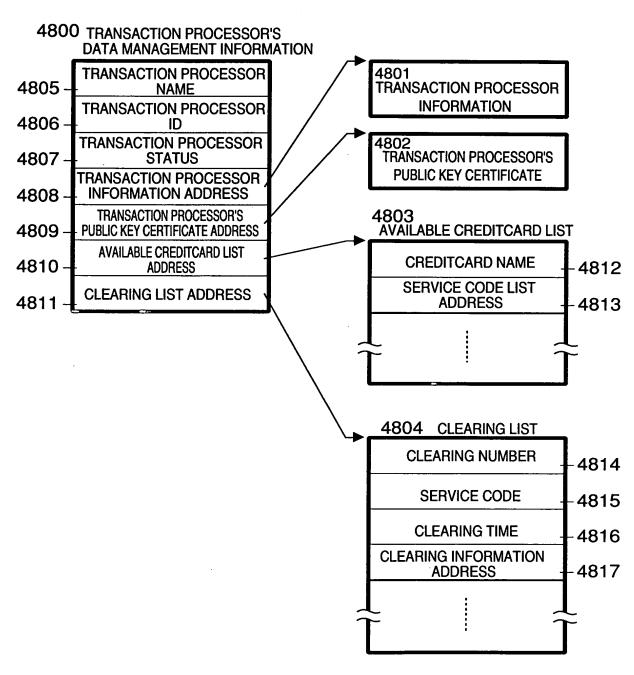
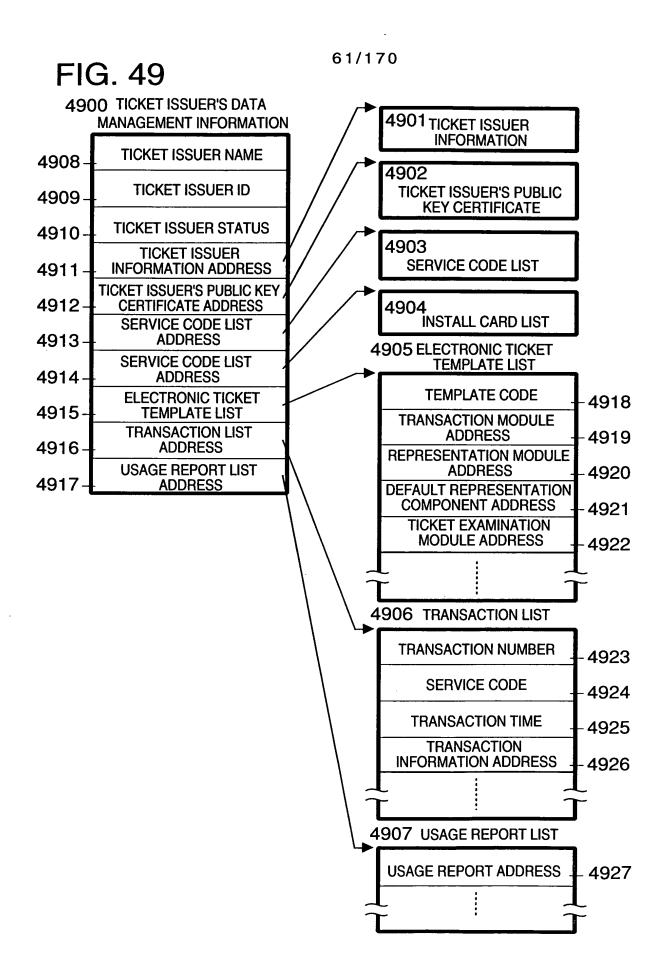
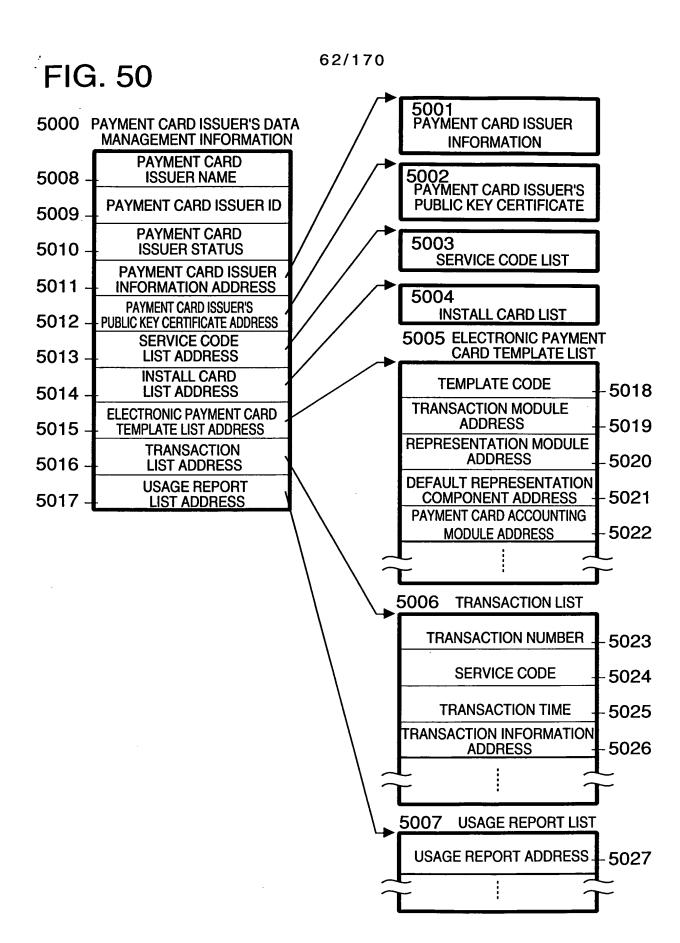


FIG. 48

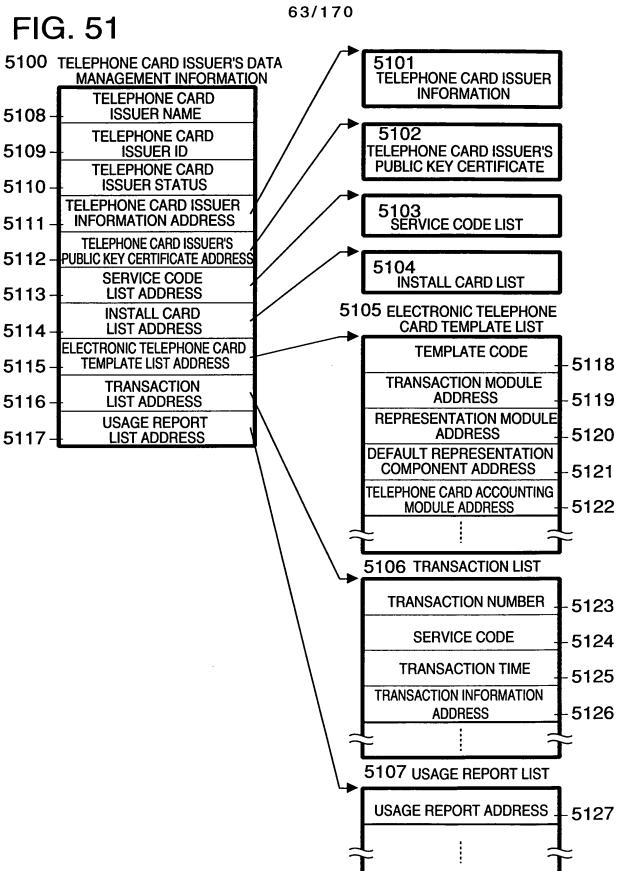


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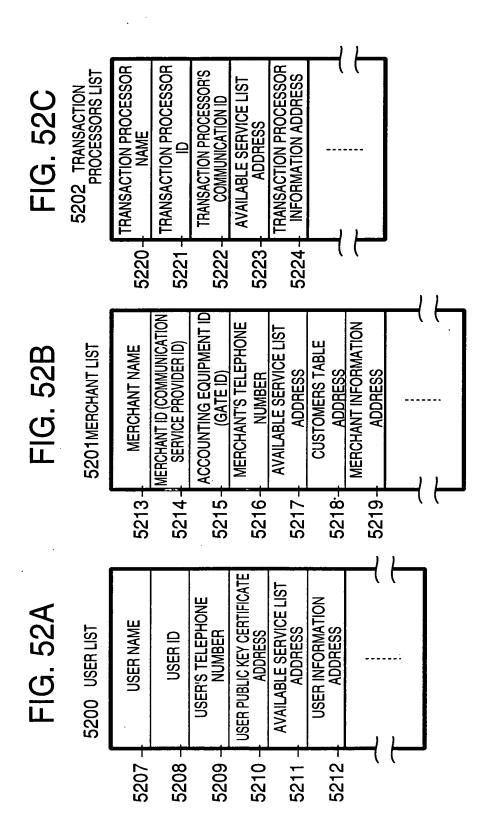


FIG. 52D

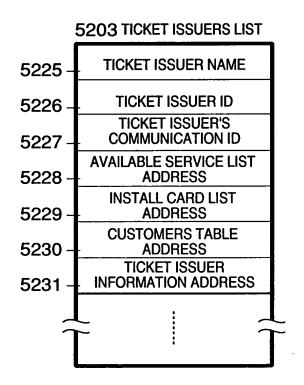
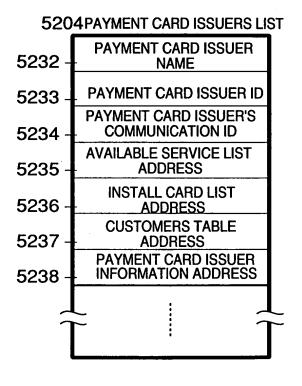


FIG. 52E



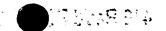
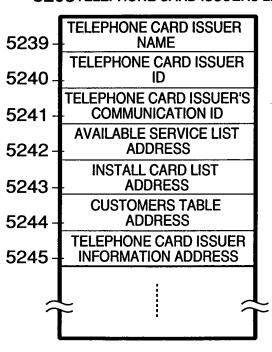
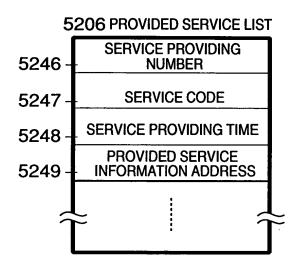


FIG. 52F

**5205TELEPHONE CARD ISSUERS LIST** 



# FIG. 52G



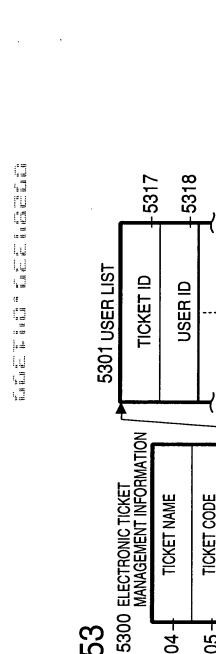


FIG. 53

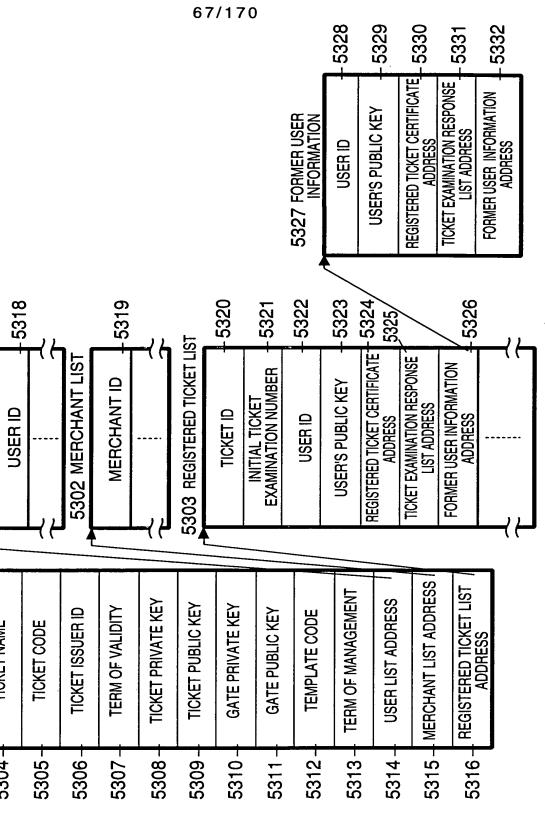


FIG. 54

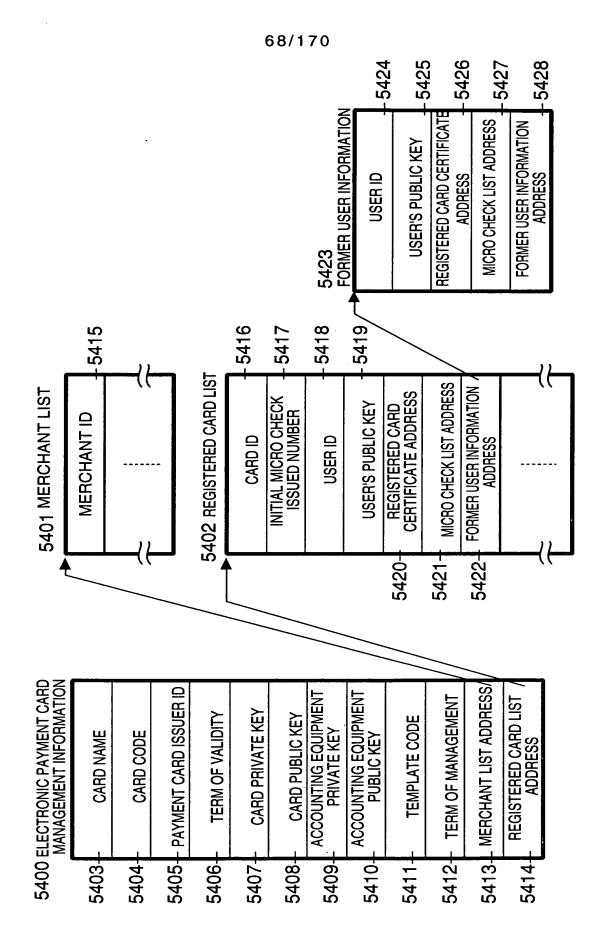


FIG. 55

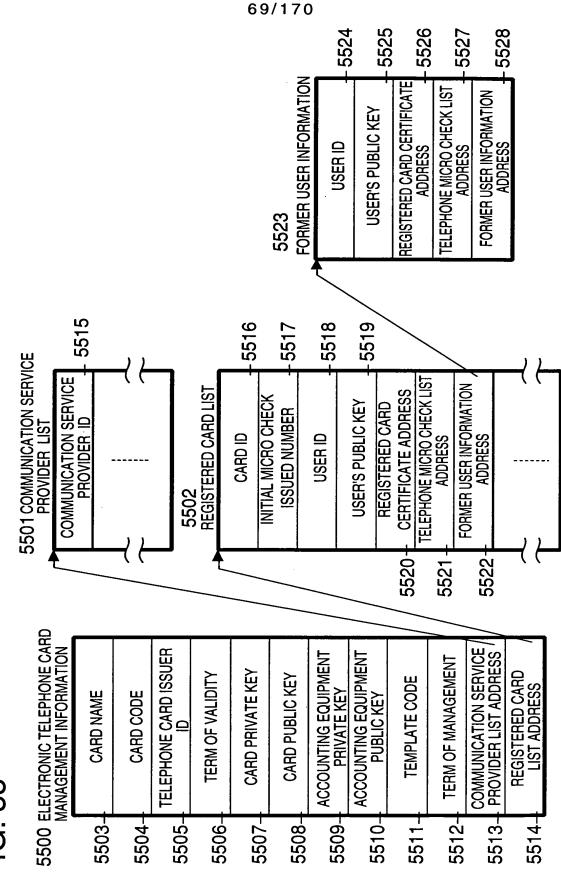
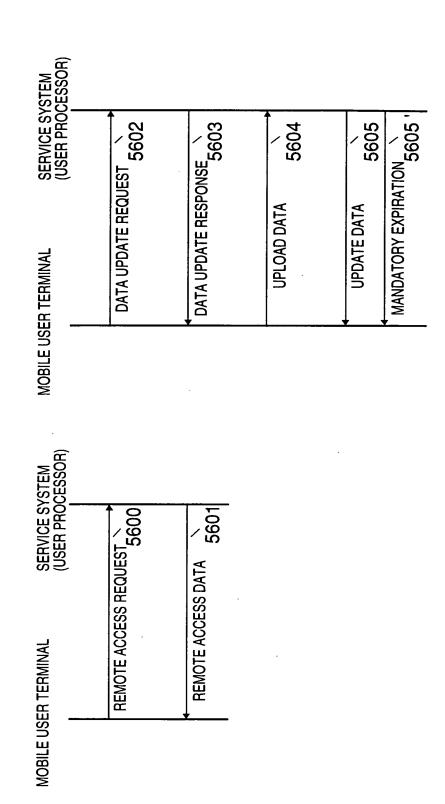


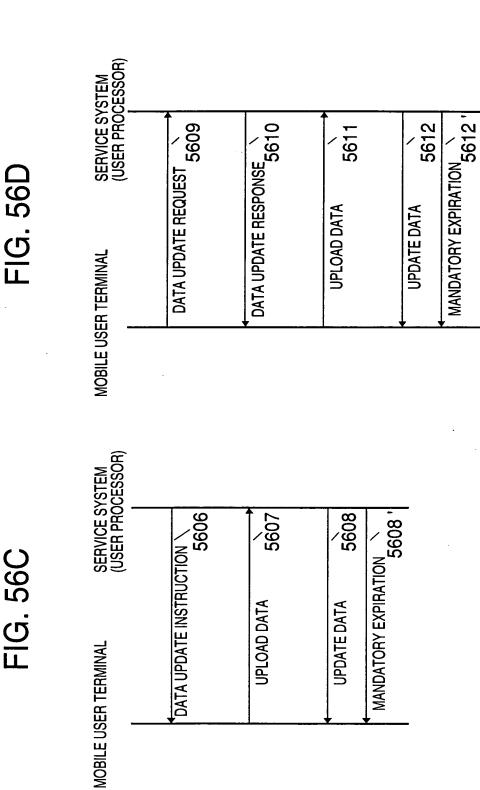
FIG. 56B

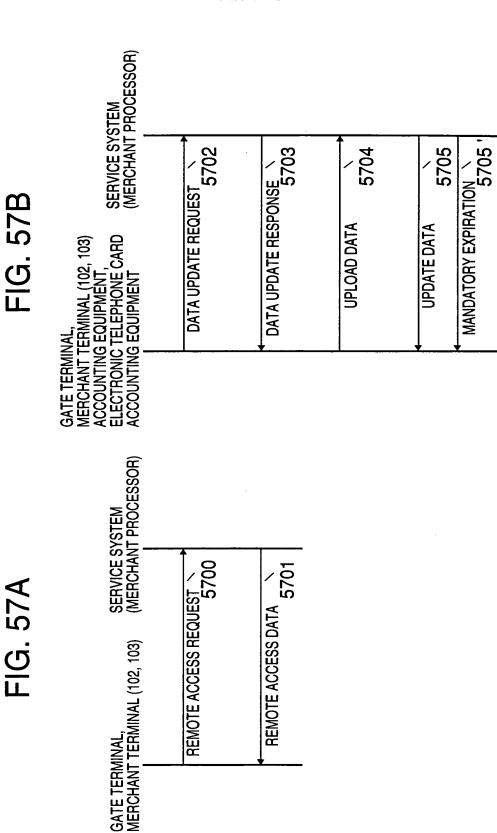
FIG. 56A

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# FIG. 57C

GATE TERMINAL,

# FIG. 57D

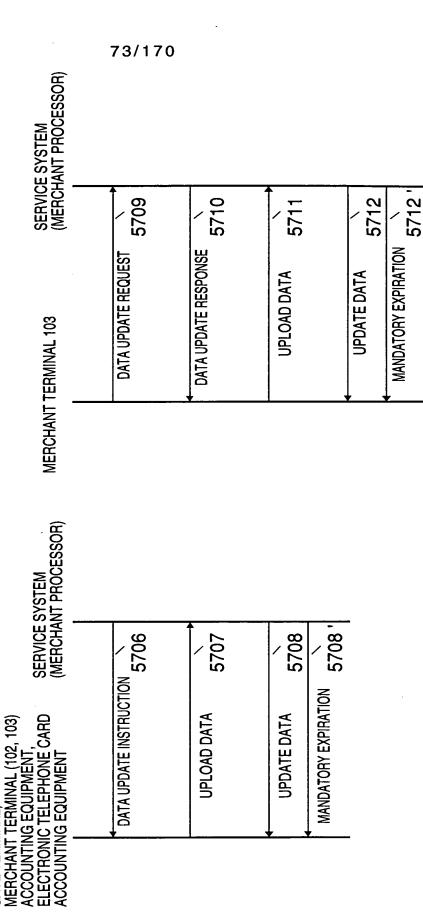


FIG. 58

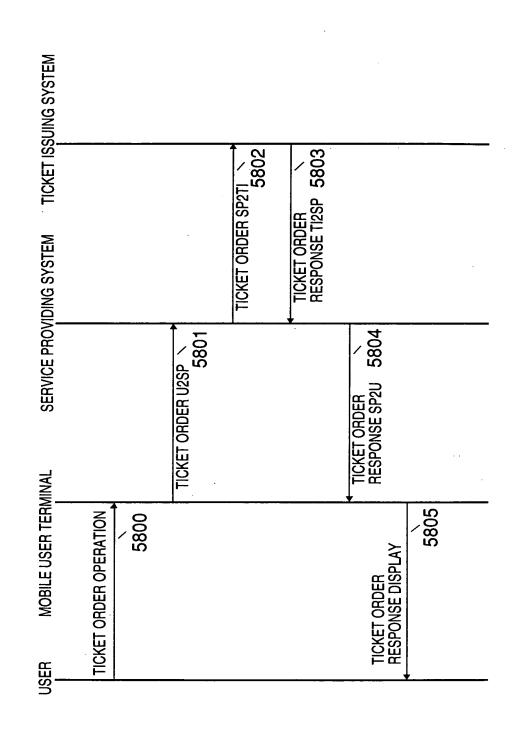


FIG. 59

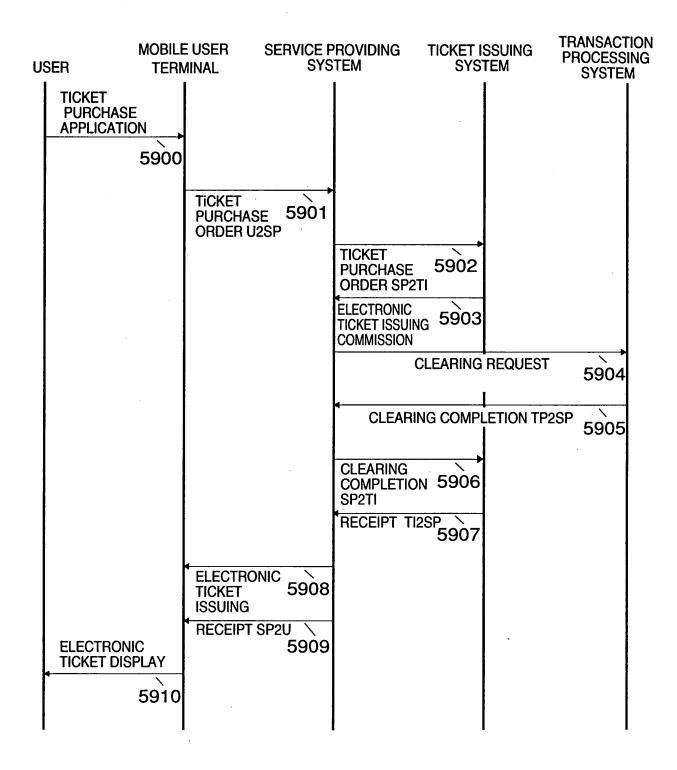






FIG. 60

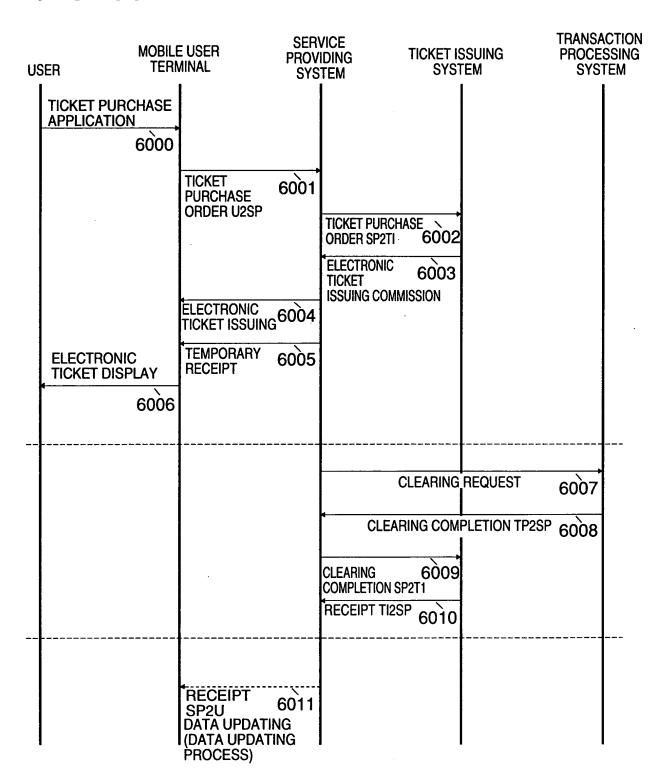


FIG. 61

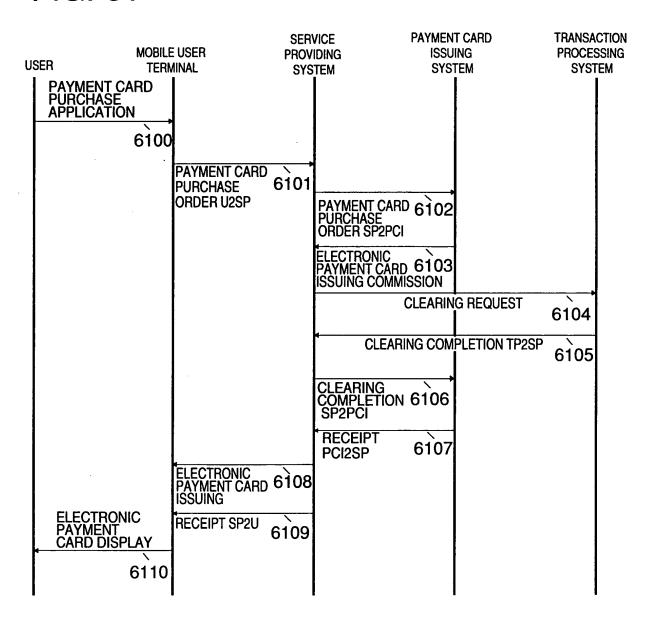
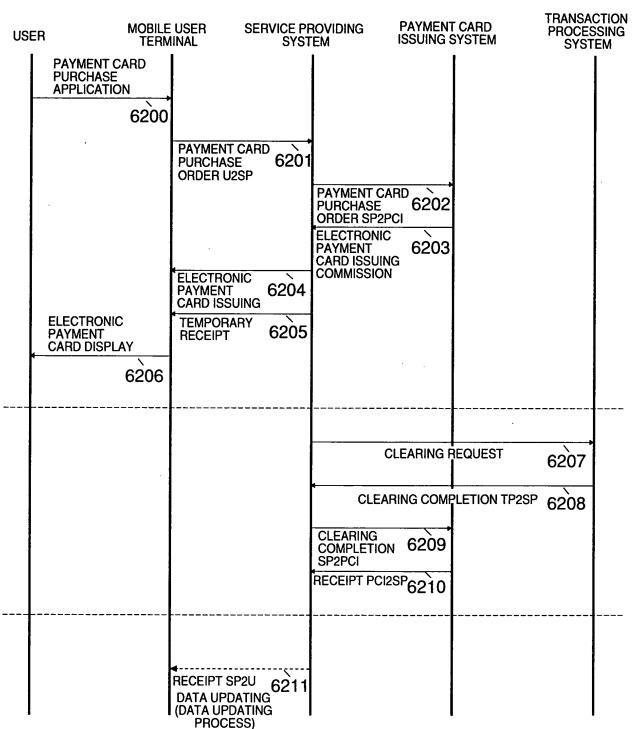
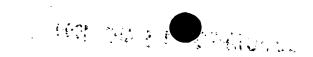


FIG. 62





## FIG. 63

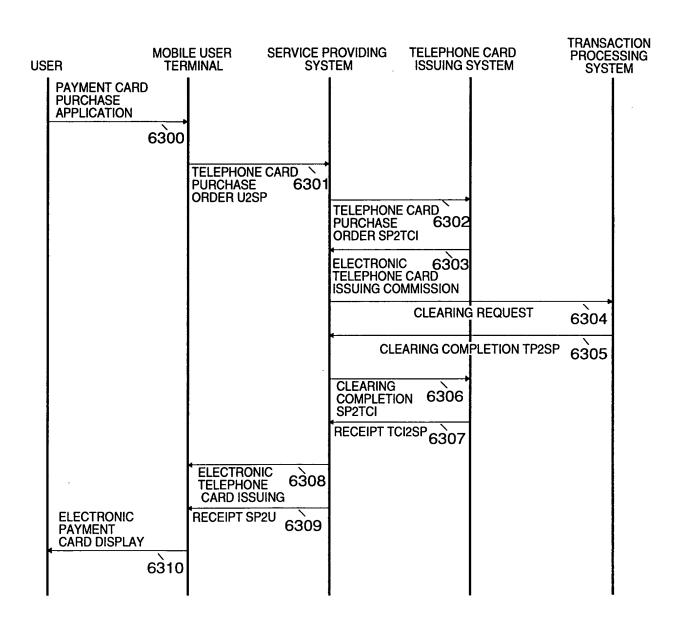
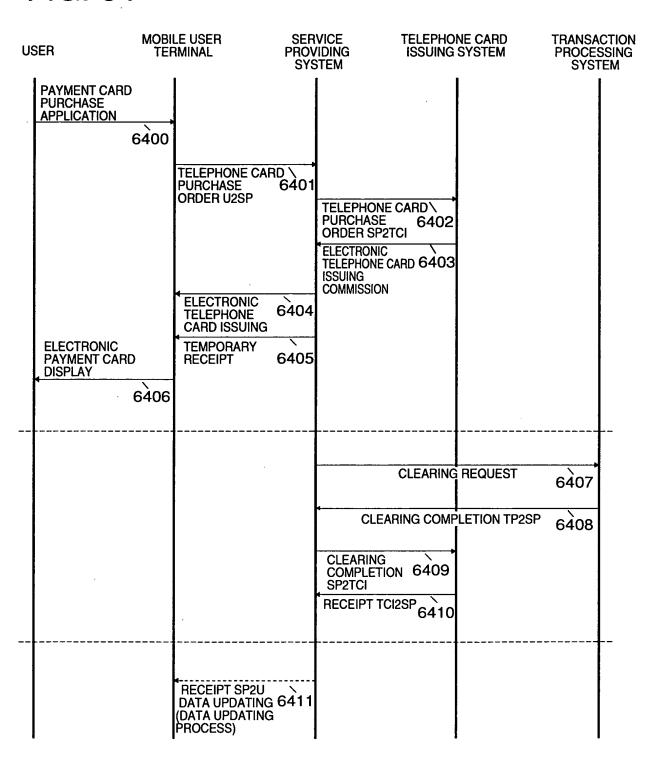
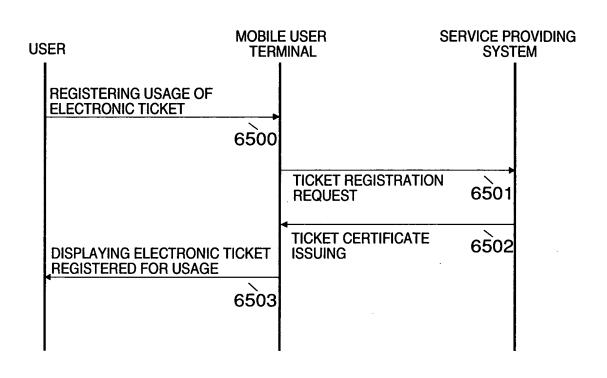


FIG. 64



## FIG. 65A





## FIG. 65B

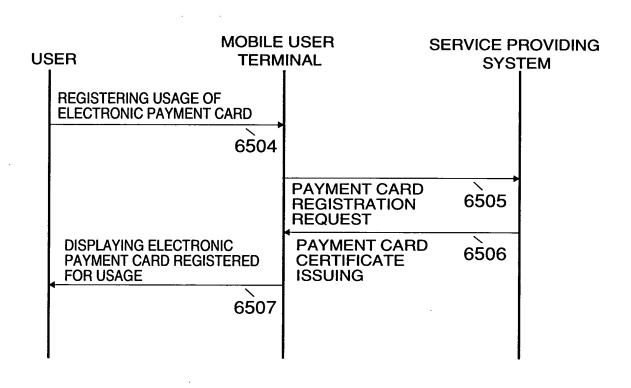




FIG. 65C

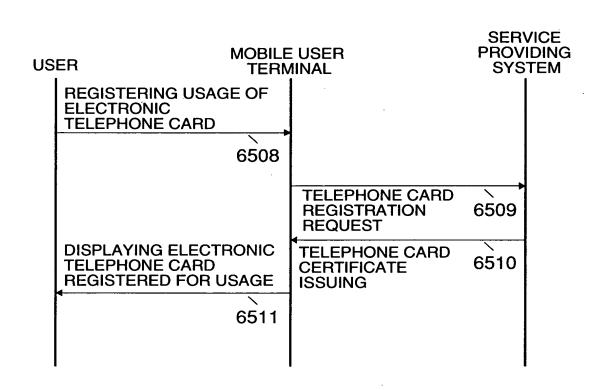
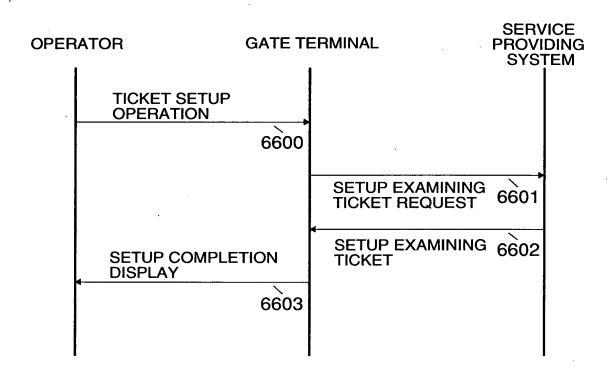
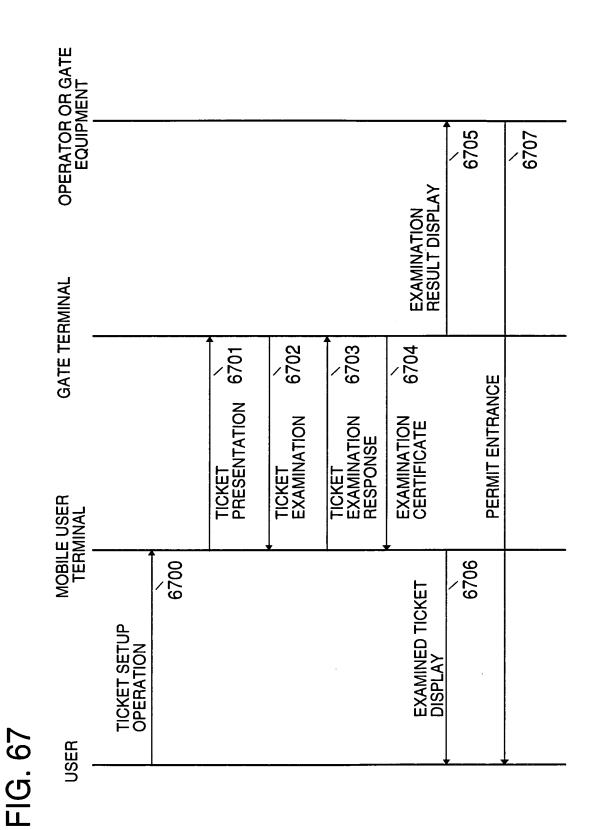


FIG. 66





Company of the second

FIG. 68

MERCHANT 6800 6802 6803 6089 6801 6811 DEPRESS SWITCH FOR 68C PAYMENT CARD SETTLEMENT DISPLAY CLEARING COMPLETION DISPLAY WAITING FOR PAYMENT OPERATION **MERCHANT TERMINAL** 6805 6806 6808 6807 PRESENT SETTLEMENT USING ELECTRONIC PAYMENT CARD INSTRUCT START PAYMENT OPERATION TRANSMIT PRODUCT PAYMENT OFFER PAYMENT OFFER RESPONSE MICRO CHECK RECEIPT **MOBILE USER TERMINAL** 6804 6810 PAYMENT OPERATION DISPLAY RECEIPT USER

FIG. 69

COM MILES IN COM

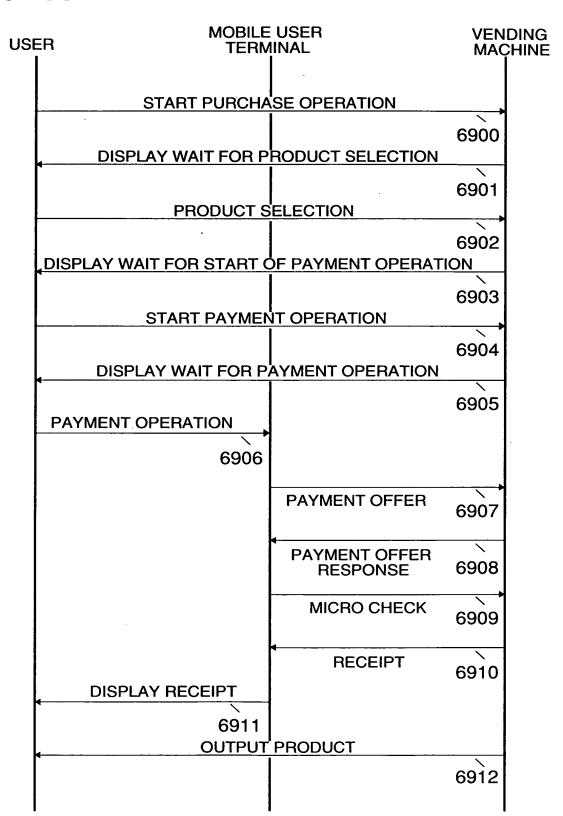




FIG. 70

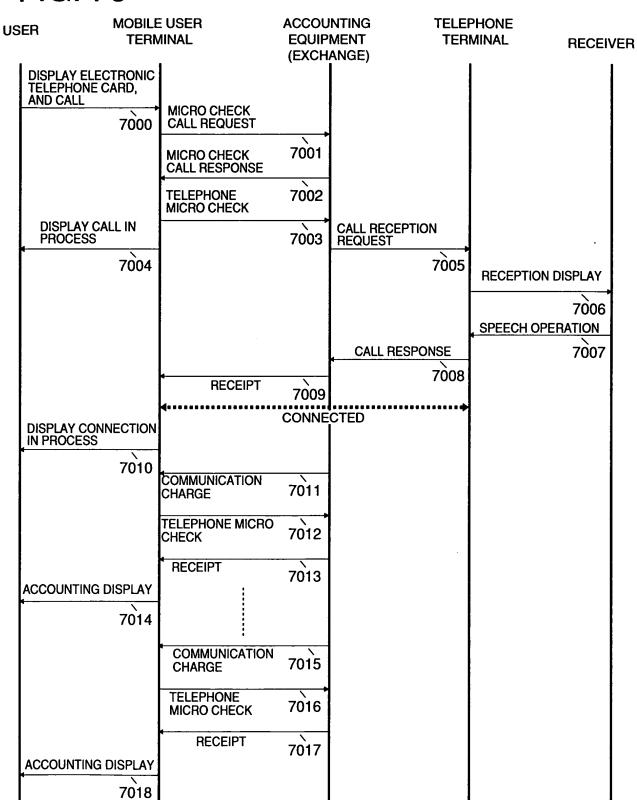


FIG. 71

0000

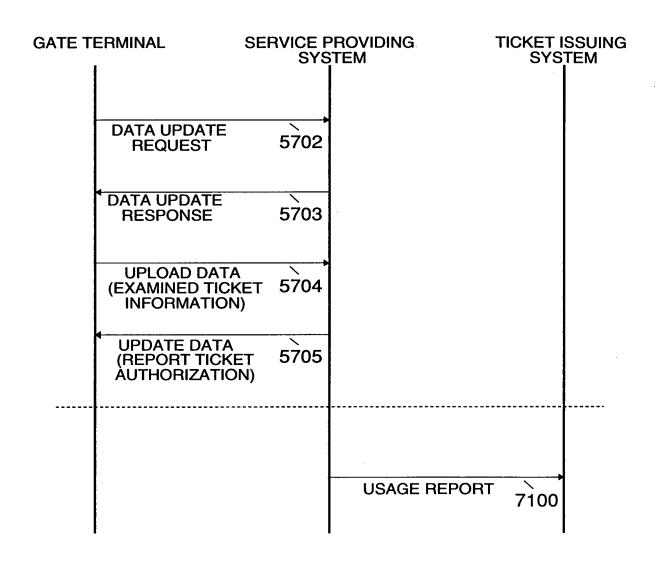
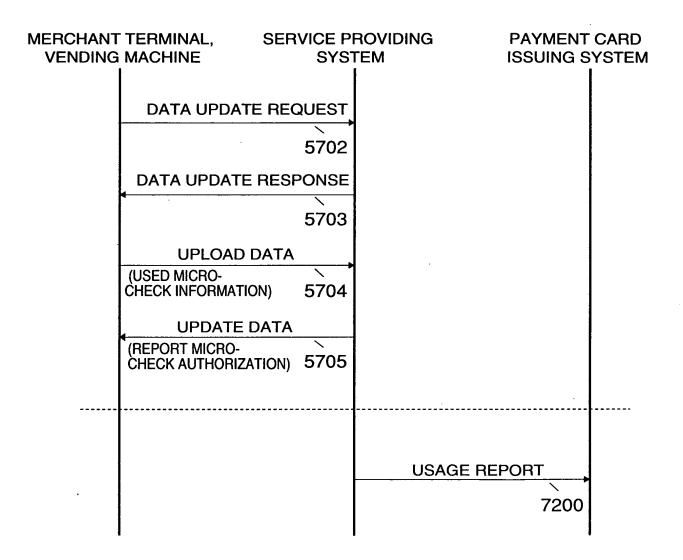
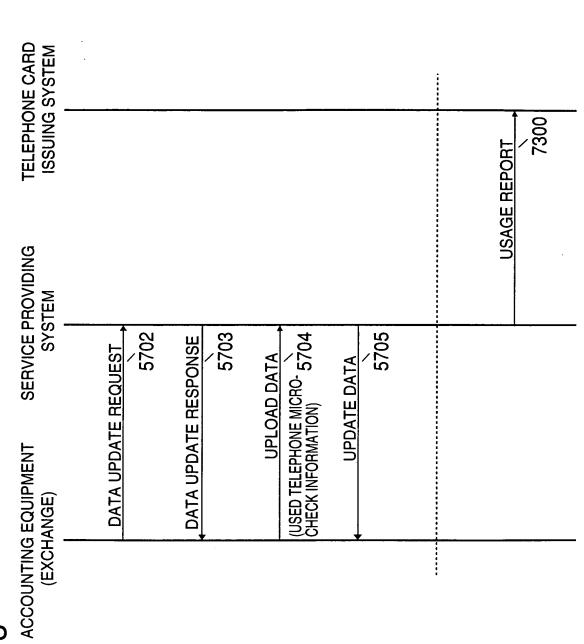


FIG. 72

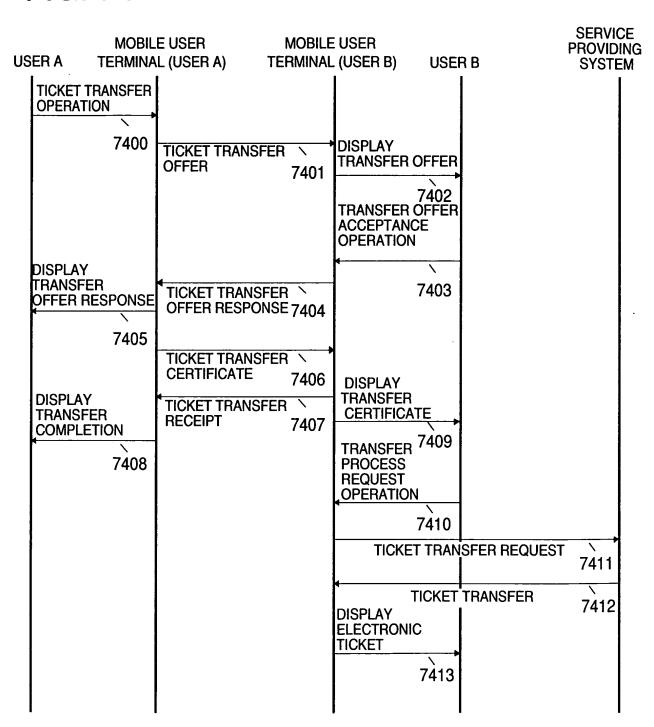


## FIG. 73



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FIG. 74



### FIG. 75

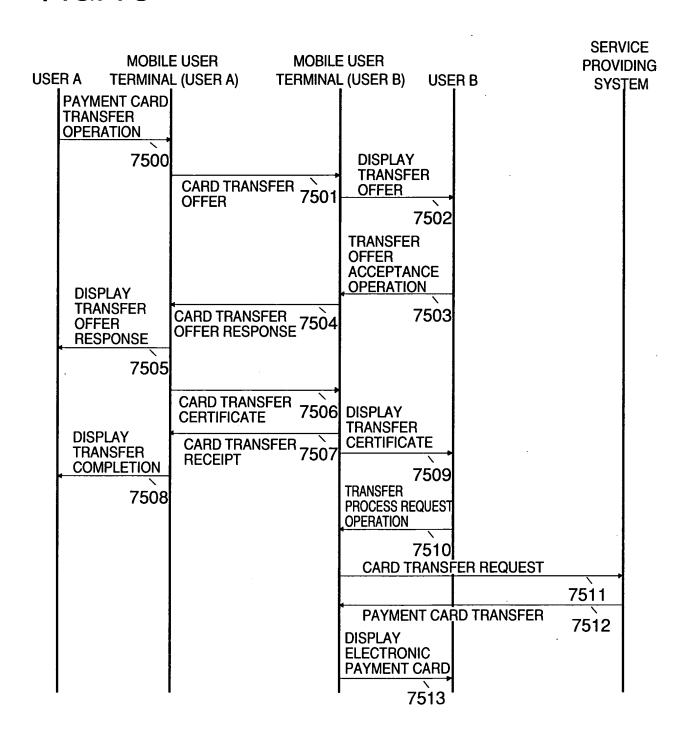
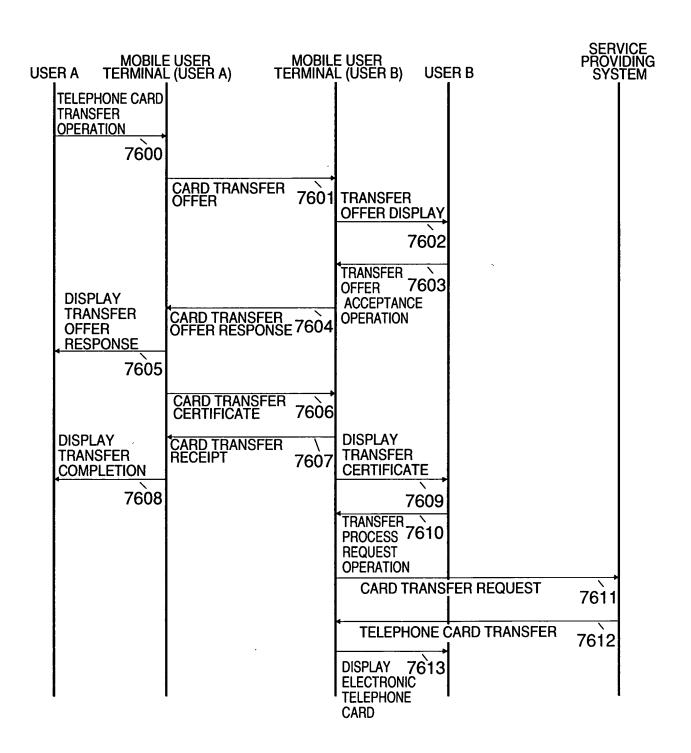
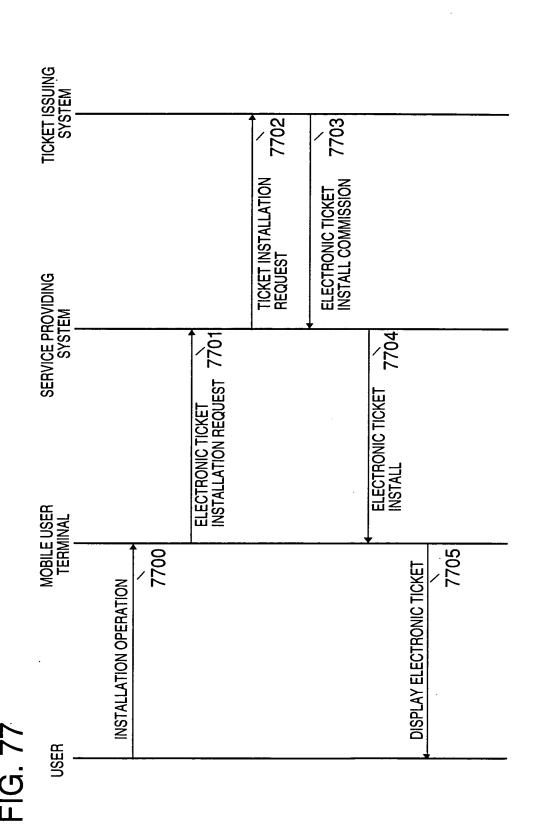


FIG. 76



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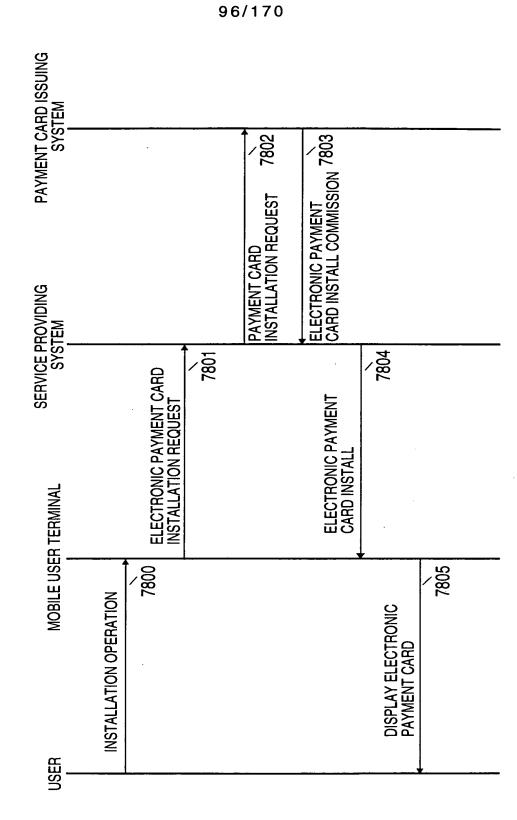


FIG. 79

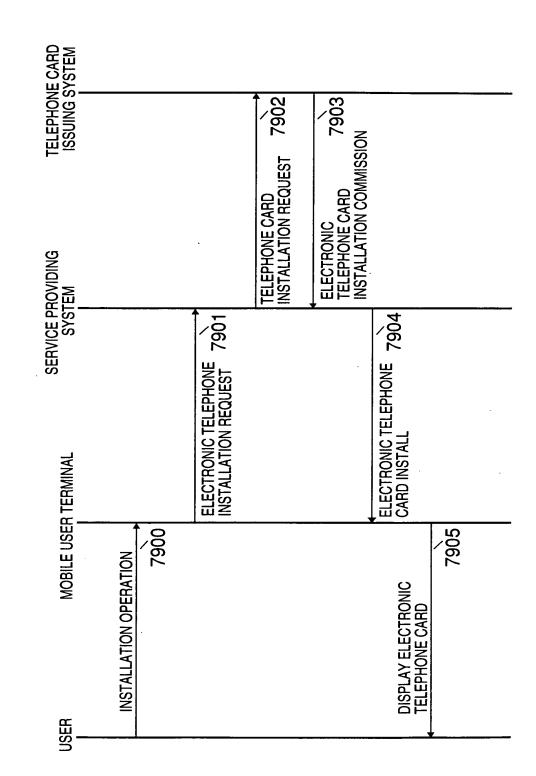
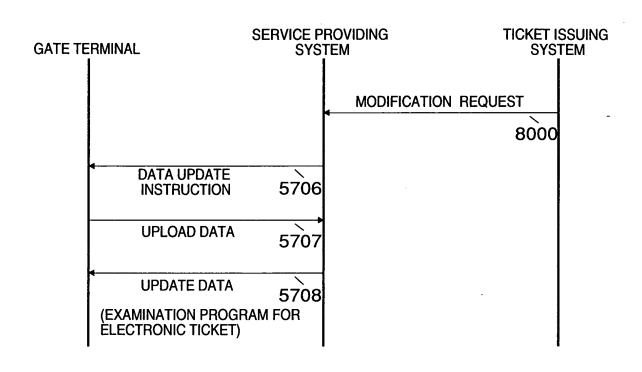


FIG. 80



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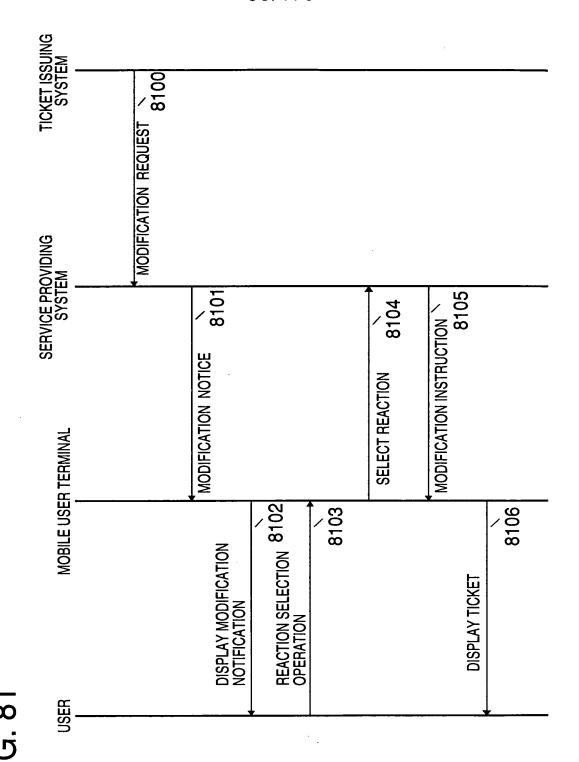
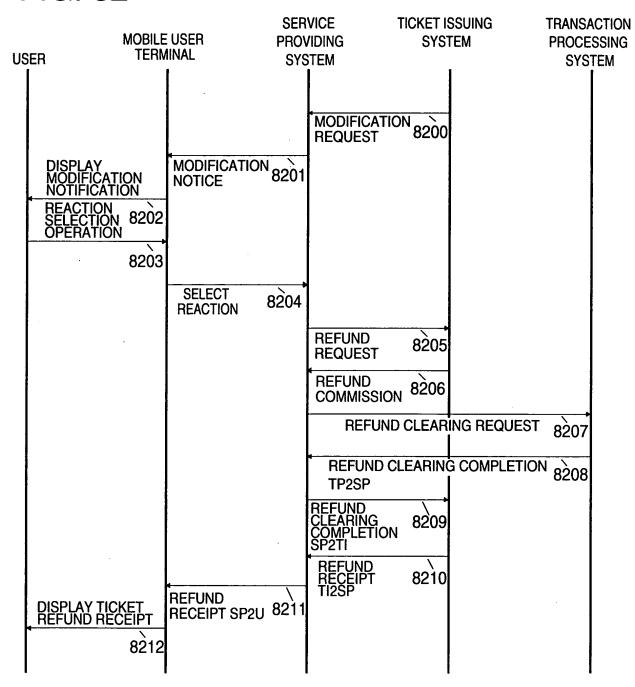


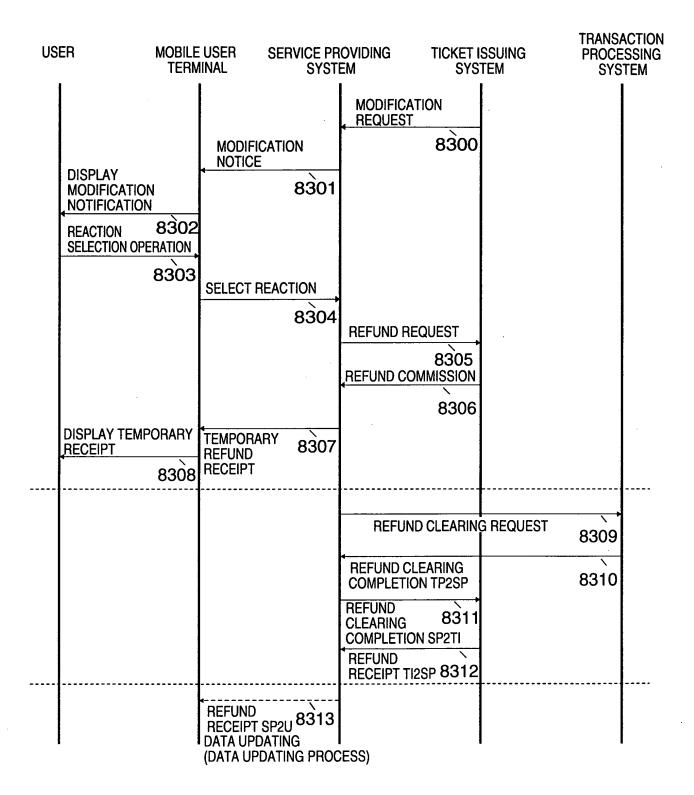


FIG. 82

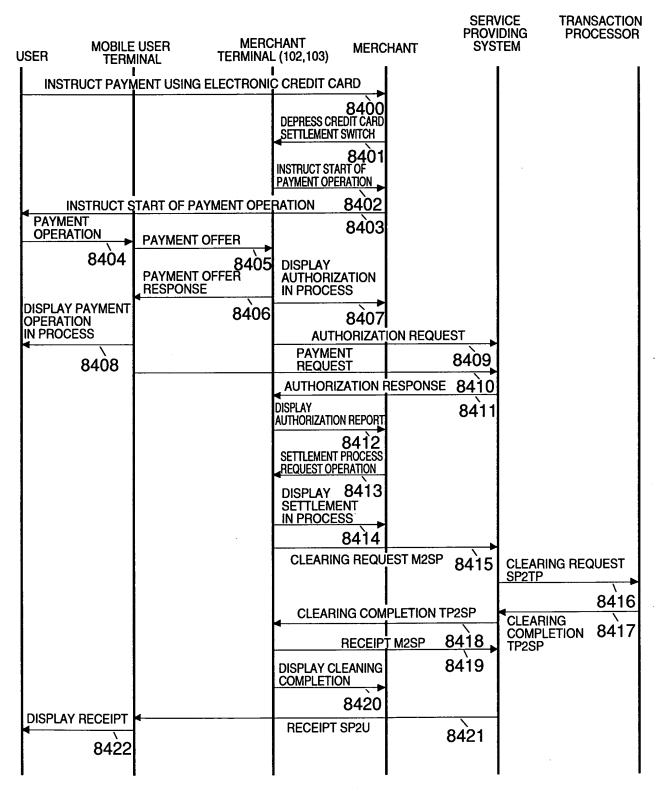




## FIG. 83



## FIG. 84



8512 8513

> ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY B)

8511

8515 8514

5601

PUBLIC KEY (PUBLIC KEY U)

**ENCRYPTED WITH USER'S** 

SECRET KEY B

REMOTE ACCESS DATA REMOTE ACCESS DATA HEADER SERVICE PROVIDER ID SSUED TIME DATA

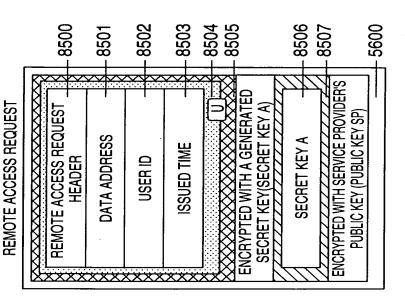
8208

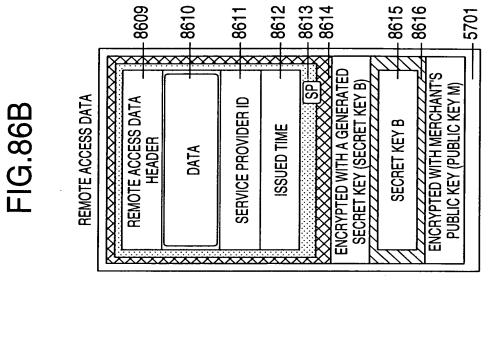
8209

8510

FIG.85B

FIG.85A





8603

**MERCHANT ID** 

8602

GATE ID OR ACCOUNTING EQUIPMENT ID

8600

8601

DATA ADDRESS

8605

ENCRYPTED WITH A GENERATED SECRET KEY A)

8608

ENCRYPTED WITH SERVICE PROVIDER'S

PUBLIC KEY (PUBLIC KEY SP)

8607

SECRET KEY A

5700

8604

**ISSUED TIME** 

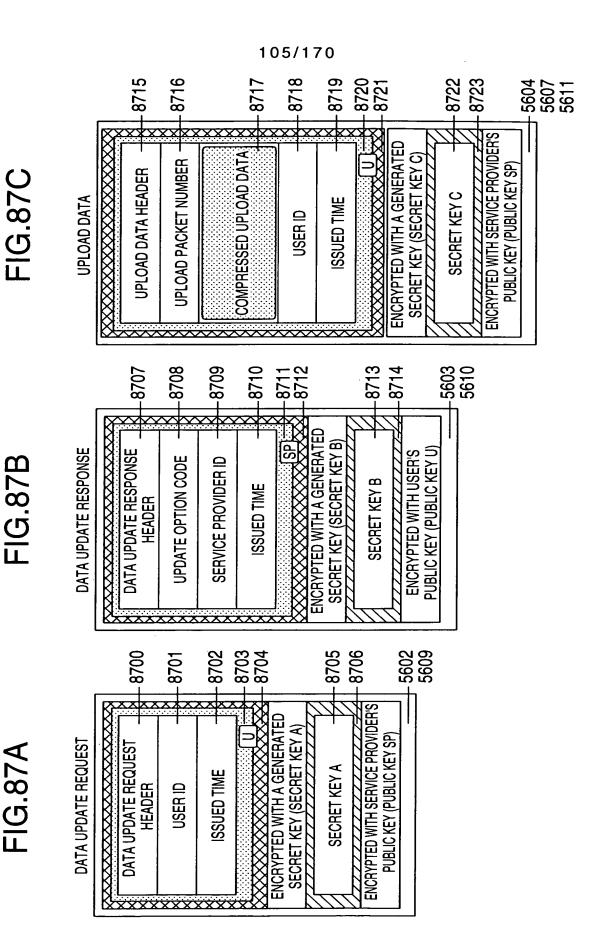
- - 5 3 3

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FIG.86A

REMOTE ACCESS REQUEST

REMOTE ACCESS REQUEST

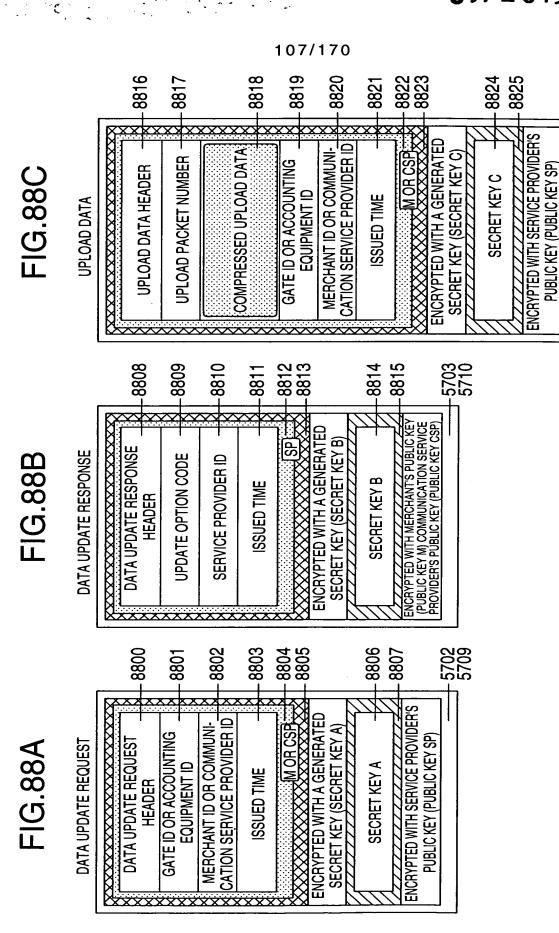


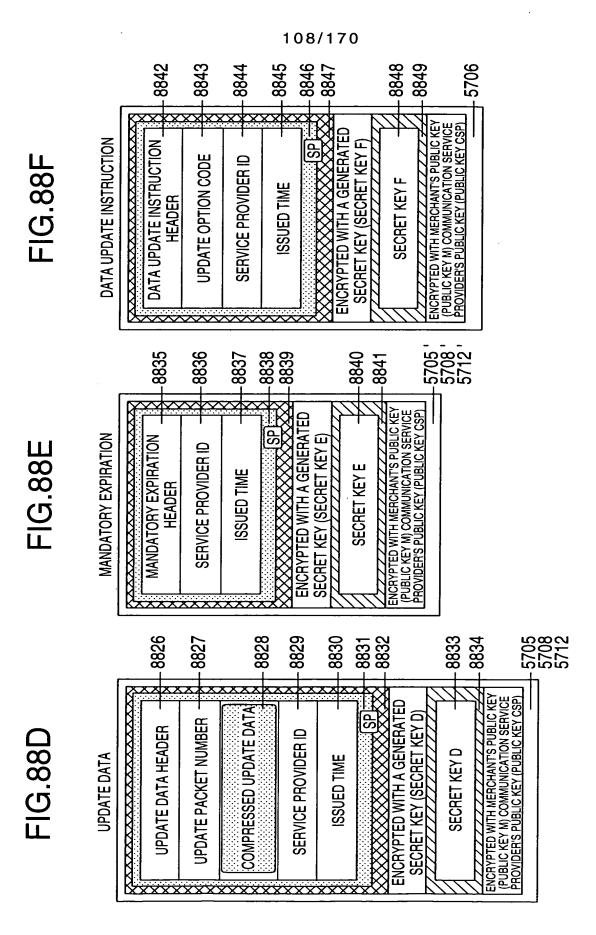
5605 5608 5612

ENCRYPTED WITH USER'S PUBLIC KEY (PUBLIC KEY U)

5606 8740 8743 8744 8746 8742 8747 8741 ENCRYPTED WITH A GENERATED \*\*\*\*\* SECRET KEY (SECRET KEY F) DATA UPDATE INSTRUCTION DATA UPDATE INSTRUCTION PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH USER'S** FIG.87F JPDATE OPTION CODE SERVICE PROVIDER ID SECRET KEY F SSUED TIME HEADER 5605 -5608 -5612 --8736 -8737 8733 8734 8735 -8738 8739 ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY E) PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH USER'S** MANDATORY EXPIRATION FIG.87E MANDATORY EXPIRATION SERVICE PROVIDER ID SECRET KEY E SSUED TIME 8729 8730 8725 8726 8728 8724 8727 8732 8731 XXXXXXXXXXXXXXXXXX ENCRYPTED WITH A GENERATED SOMPRESSED UPDATE DATA SECRET KEY (SECRET KEY D) UPDATE PACKET NUMBER SERVICE PROVIDER ID UPDATE DATA HEADER SECRET KEY D UPDATE DATA **ISSUED TIME** 

FIG.87D





PUBLIC KEY (PUBLIC KEY SP)

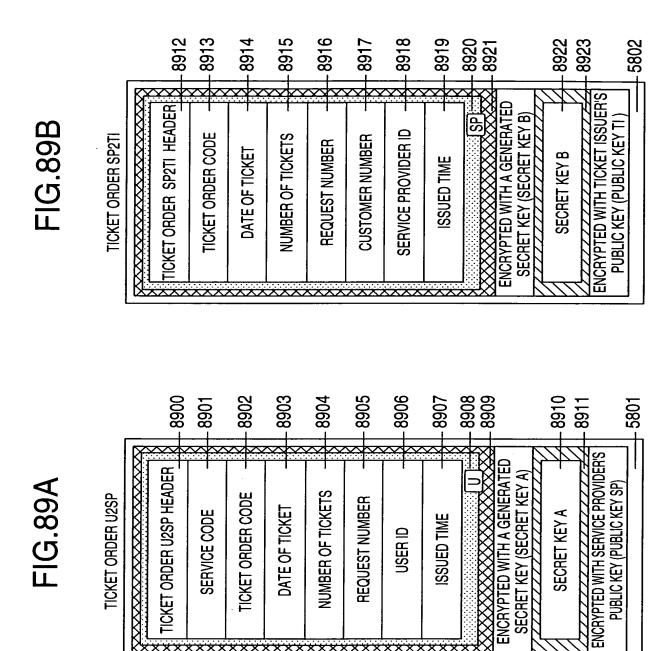
SECRET KEY A

**FIG.89A** 

TICKET ORDER U2SP



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NUMBER OF TICKETS

REQUEST NUMBER

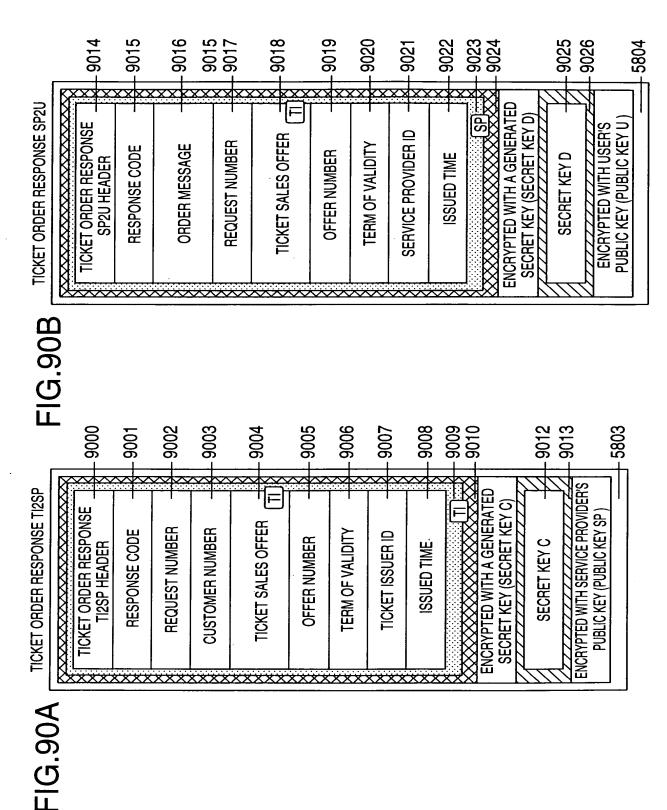
**USER ID** 

SSUED TIME

**TICKET ORDER CODE** 

DATE OF TICKET

SERVICE CODE

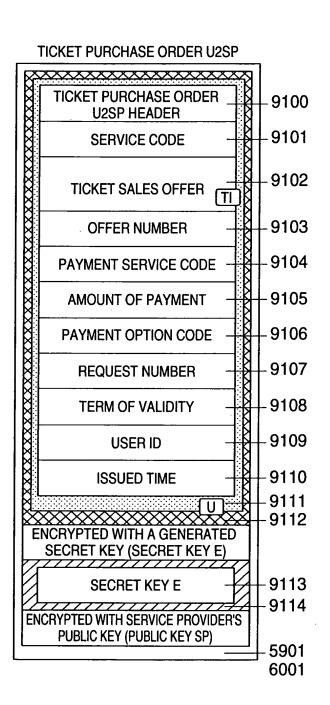


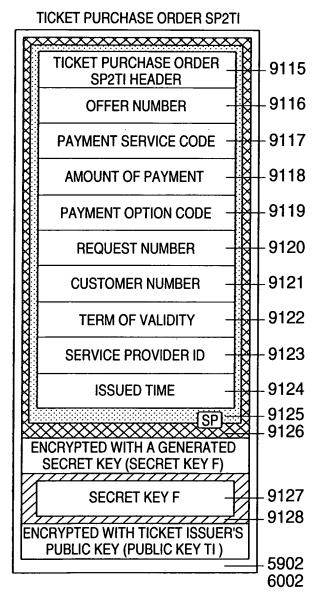
A. S. C. S.



# FIG.91A

# FIG.91B



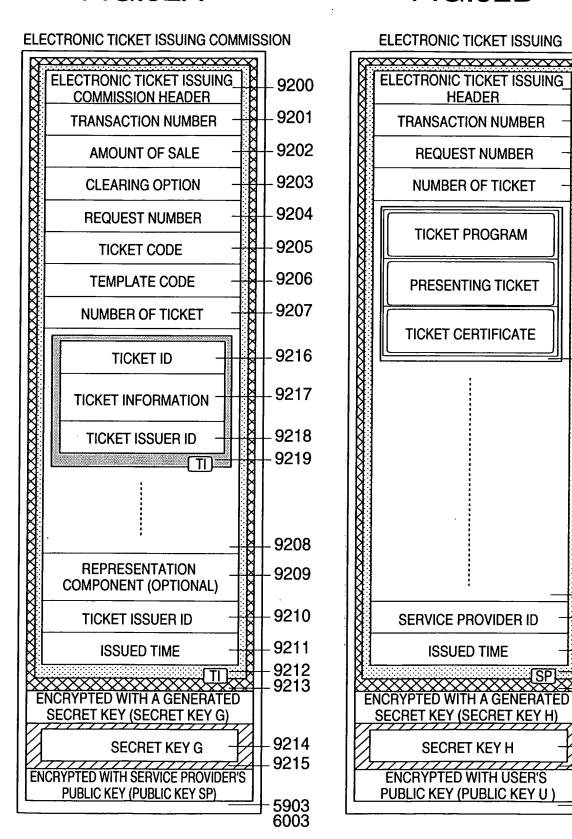




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# FIG.92A

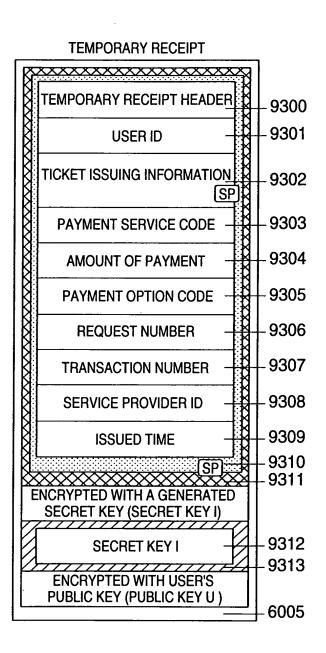
FIG.92B

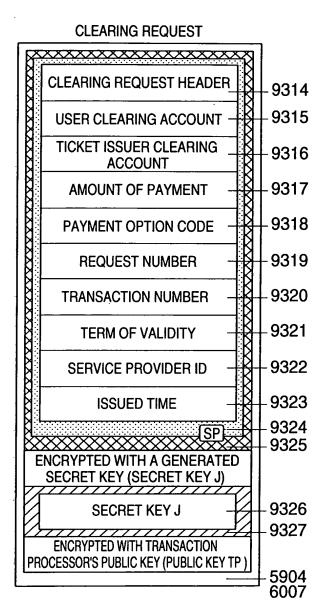




# FIG.93A

# FIG.93B





# FIG.94A

# FIG.94B

### **CLEARING COMPLETION TP2SP** CLEARING COMPLETION TP2SP 9400 **HEADER** 9401 **CLEARING NUMBER** - 9402 USER CLEARING ACCOUNT TICKET ISSUER CLEARING 9403 **ACCOUNT** 9404 AMOUNT OF PAYMENT PAYMENT OPTION CODE - 9405 REQUEST NUMBER 9406 9407 TRANSACTION NUMBER 9408 **CLEARING INFORMATION 2SP** TP 9409 **CLEARING INFORMATION 2TI** TP 9410 **CLEARING INFORMATION 2U** ΙTΡ 9411 **CLEARING PROCESSOR ID** 9412 **ISSUED TIME** 9413 9414 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY K) 9415 SECRET KEY K 9416 **ENCRYPTED WITH SERVICE PROVIDER'S** PUBLIC KEY (PUBLIC KEY SP) 5905

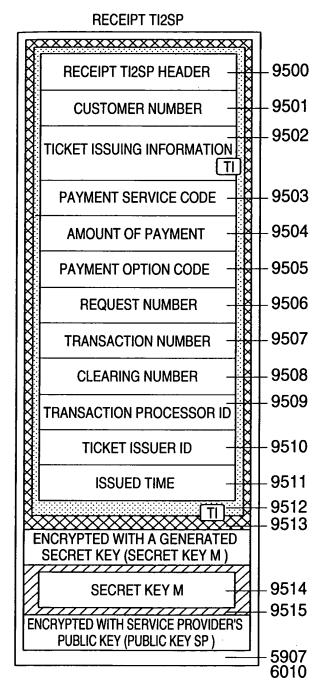
6008

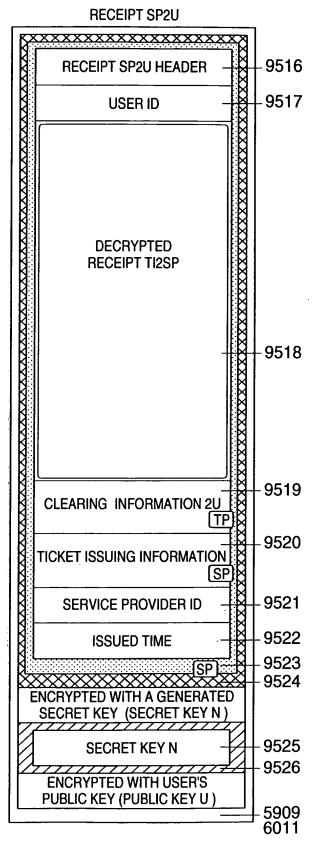
### CLEARING COMPLETION SP2TI <del>XXXXXXXXXXXXXXXXX</del> CLEARING COMPLETION SP2TI 9417 HEADER 9418 **CLEARING NUMBER** - 9419 **CUSTOMER NUMBER** 9420 TICKET ISSUER ID - 9421 PAYMENT SERVICE CODE AMOUNT OF PAYMENT - 9422 PAYMENT OPTION CODE - 9423 9424 REQUEST NUMBER - 9425 TRANSACTION NUMBER 9426 **CLEARING INFORMATION 2TI** (TP 9427 TRANSACTION PROCESSOR ID - 9428 SERVICE PROVIDER ID 9429 **ISSUED TIME** 9430 9431 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY L) 9432 SECRET KEY L 9433 **ENCRYPTED WITH TICKET ISSUER'S** PUBLIC KEY (PUBLIC KEY TI) 5906 6009



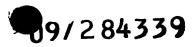
# FIG.95A

# 115/170 FIG.95B



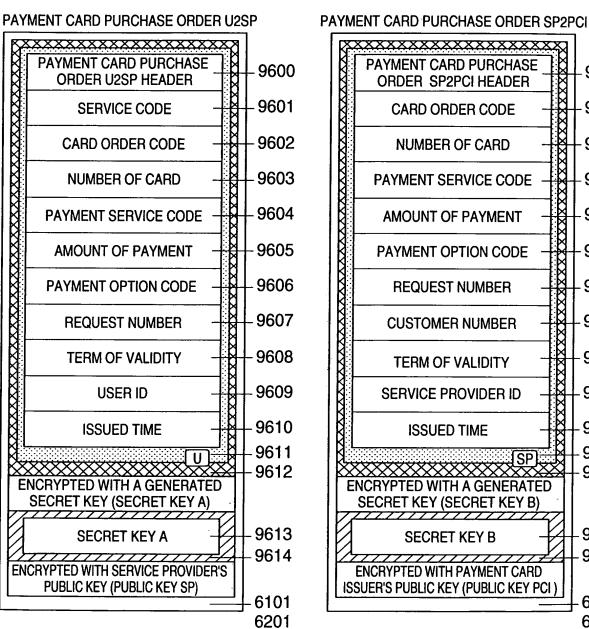




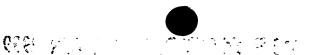


# FIG.96A

# FIG.96B



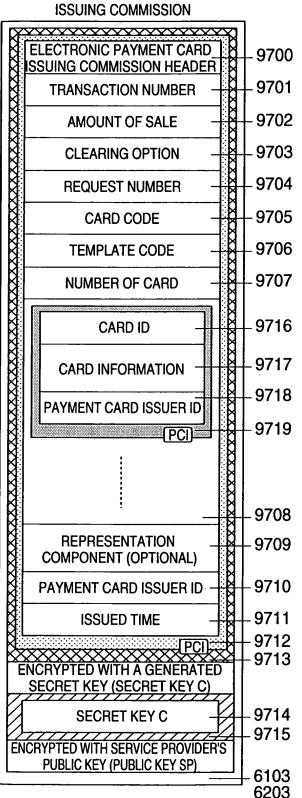
AYMENT CARD PURCHASE ORDER SP2PCI							
K	*****	X	1				
	PAYMENT CARD PURCHASE	X	Ц	-9615			
I N	ORDER SP2PCI HEADER	X		00.0			
	CARD ORDER CODE -	×××	H	-9616			
	NUMBER OF CARD -	xxx	H	-9617			
	PAYMENT SERVICE CODE -	$\times \times \times$	$\ $	-9618			
	AMOUNT OF PAYMENT —	XXXX	H	-9619			
	PAYMENT OPTION CODE -	XXX	$\parallel$	-9620			
XXXX	REQUEST NUMBER —	xxxx		- 9621			
XX	CUSTOMER NUMBER -	XXX		-9622			
	TERM OF VALIDITY -	+	-9623				
N N	SERVICE PROVIDER ID —	X	1	-9624			
XXX	ISSUED TIME -	X	1	- 9625 - 9626			
	SP SP						
E	1	- 9627					
	SECRET KEY B		1	-9628 -9629			
ENCRYPTED WITH PAYMENT CARD							
ISSUER'S PUBLIC KEY (PUBLIC KEY PCI )							
L	Ŧ	6102					
		6202					



# FIG.97A

# FIG.97B

# ELECTRONIC PAYMENT CARD ISSUING COMMISSION



# **ELECTRONIC PAYMENT CARD ISSUING ELECTRONIC PAYMENT CARD** 9720 **ISSUING HEADER** TRANSACTION NUMBER 9721 - 9722 REQUEST NUMBER 9723 NUMBER OF CARD **PAYMENT CARD PROGRAM** PRESENTING CARD **CARD CERTIFICATE** 9731 9724 9725 SERVICE PROVIDER ID 9726 **ISSUED TIME** 9727 9728 ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY D) 9729 SECRET KEY D 9730 ENCRYPTED WITH USER'S PUBLIC KEY (PUBLIC KEY U) 6108 6204

:== :::::=

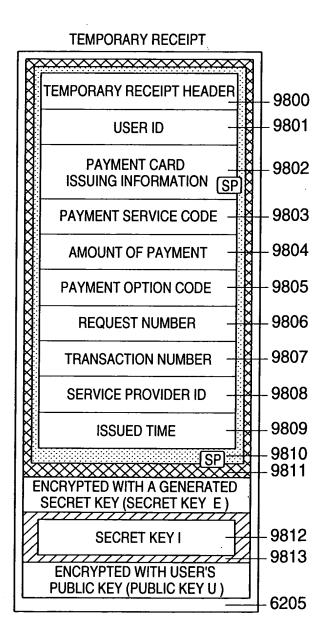


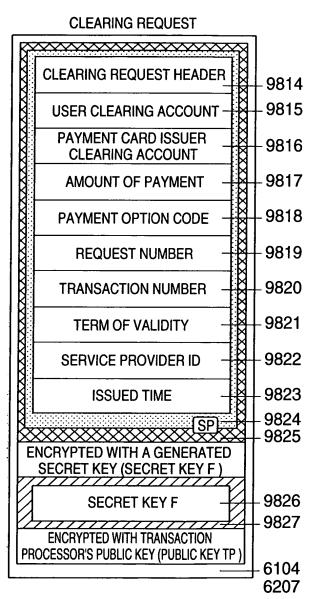


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# FIG.98A

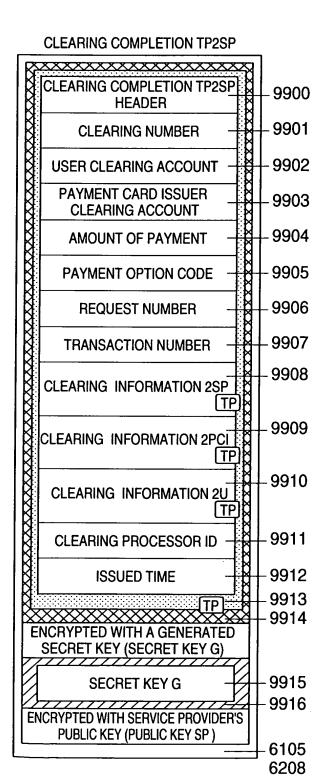
# FIG.98B





# FIG.99A

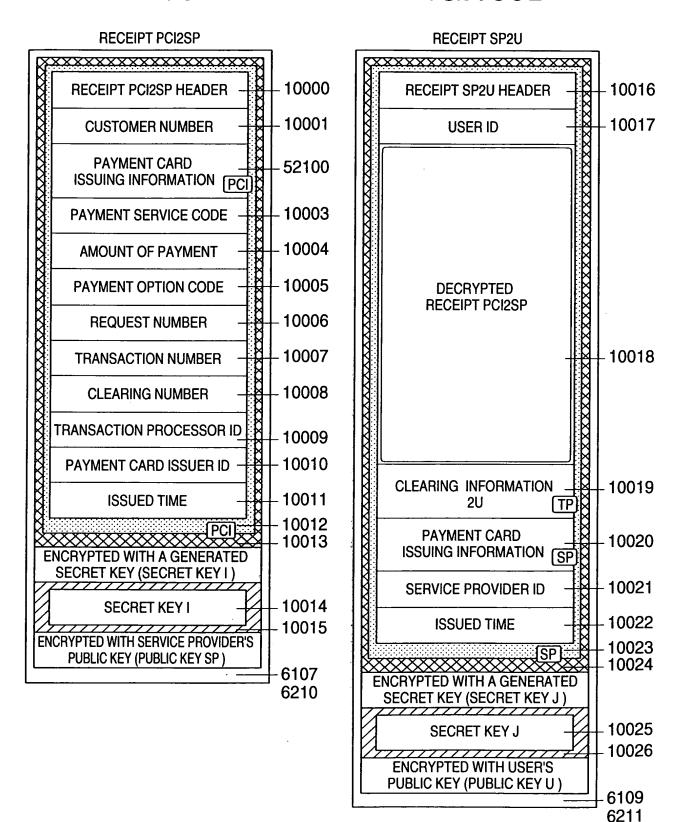
# FIG.99B



### ARING COMPLETION. **CLEARING COMPLETION SP2PCI** CLEARING COMPLETION -9917 SP2PCI HEADER **CLEARING NUMBER** 9918 l-9919 **CUSTOMER NUMBER** - 9920 PAYMENT CARD ISSUER ID -- 9921 PAYMENT SERVICE CODE -9922 AMOUNT OF PAYMENT - 9923 PAYMENT OPTION CODE - 9924 **REQUEST NUMBER** TRANSACTION NUMBER - 9925 9926 **CLEARING INFORMATION 2PCI** [TP] -9927 TRANSACTION PROCESSOR ID **-** 9928 SERVICE PROVIDER ID 9929 **ISSUED TIME** 9930 9931 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY H) 9932 SECRET KEY H 9933 **ENCRYPTED WITH PAYMENT CARD** ISSUER'S PUBLIC KEY (PUBLIC KEY PCI ) 6106 6209

# **FIG.100A**

# **FIG.100B**

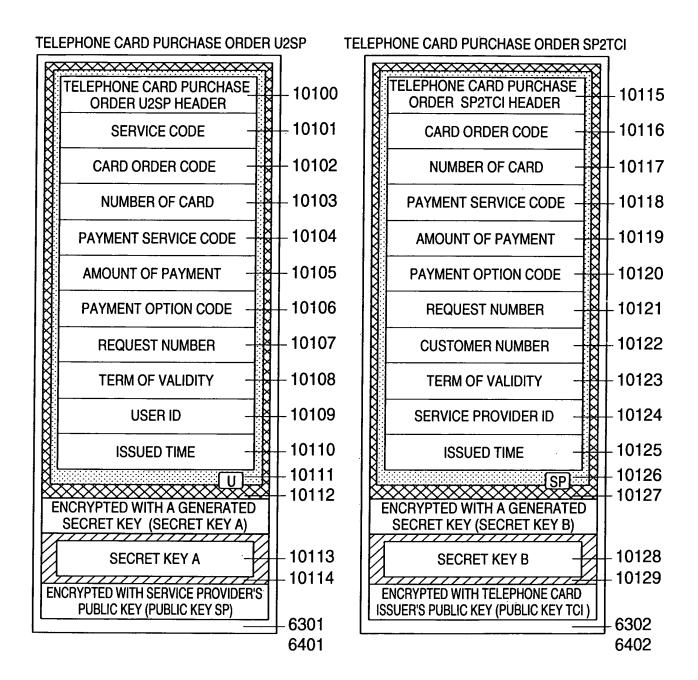




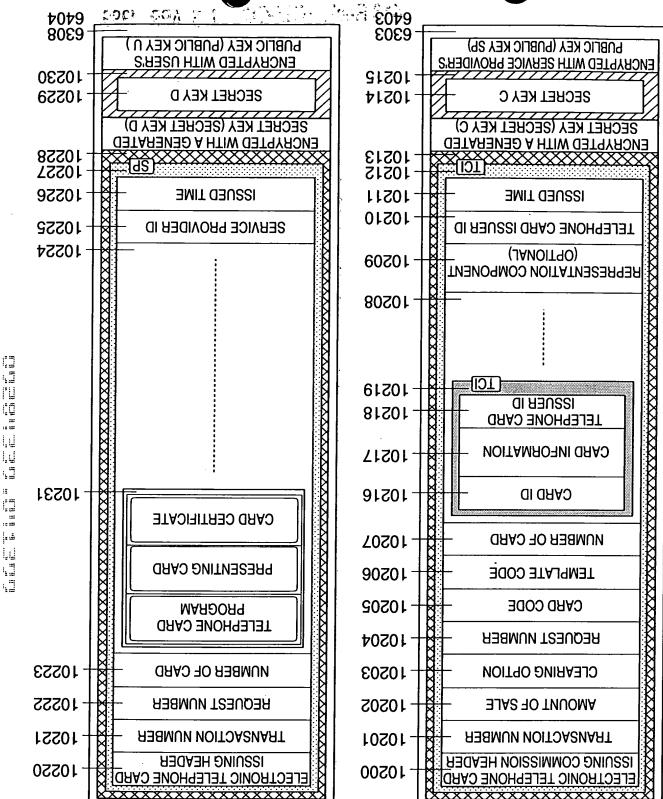


# FIG.101A

FIG.101B



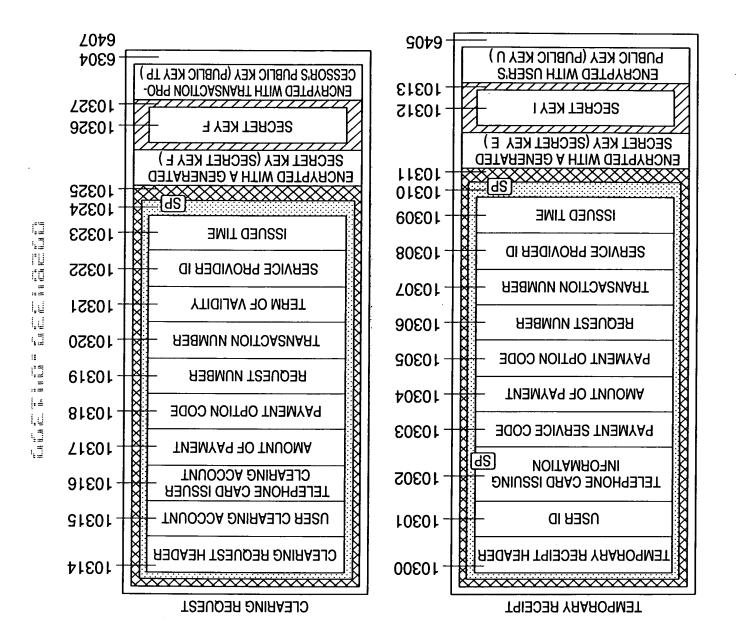
10204 NUMBER OF CARD 10203 REQUEST NUMBER 10202 10201 **ISSUING HEADER** 10200 ELECTRONIC TELEPHONE CARD ISSUING ISSNING COMMISSION ELECTRONIC TELEPHONE CARD FIG.102B AS01.DIH 122/170

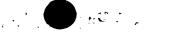


<u>n</u>9/284339

# FIG.103B

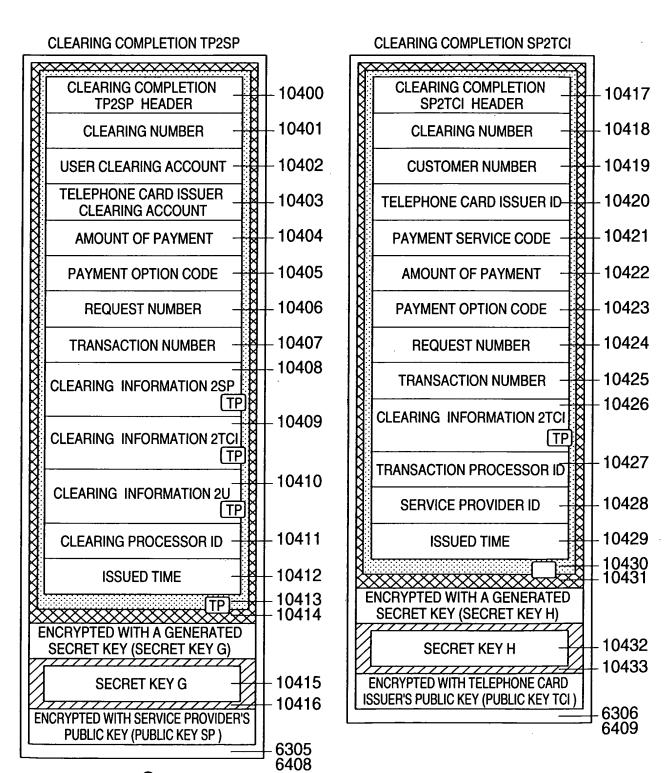
# FIG.103A





# FIG.104A

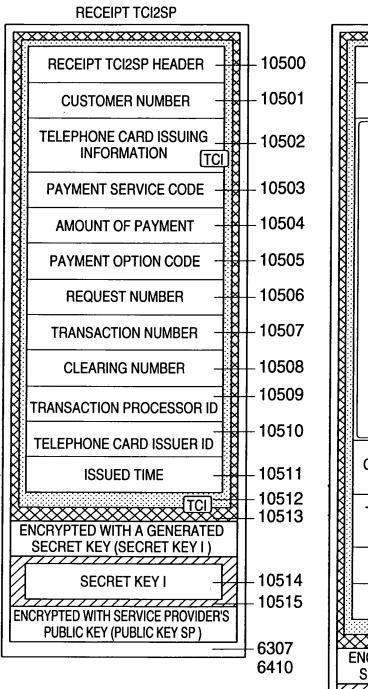
# **FIG.104B**



# FIG.105A

perty seed to the contract of

# FIG.105B



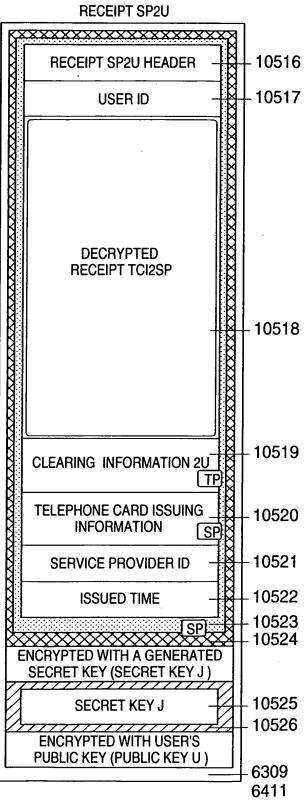


FIG.106B

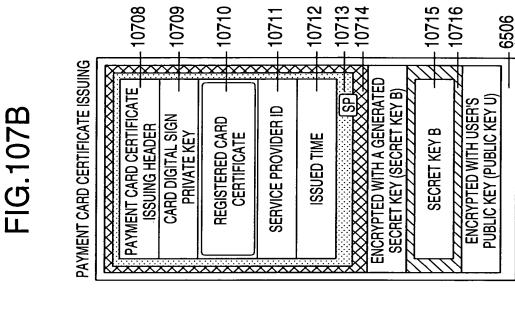
**TICKET REGISTRATION REQUEST** 

FIG.106A

- 10608 - 10609 10613 -10610 -10612 10615 10616 .10611 6502 USER'S PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH A GENERATED** TICKET CERTIFICATE ISSUING TICKET CERTIFICATE ISSUING SECRET KEY (SECRET KEY B) SERVICE PROVIDER ID TICKET DIGITAL SIGN REGISTERED TICKET CERTIFICATE ENCRYPTED WITH SECRET KEY B **PRIVATE KEY** ISSUED TIME

- 10600	- 10601	- 10602	- 10603	- 10604 - 10605	-10606	- 10607	-6501
TICKET REGISTRATION REQUEST HEADER	TICKET ID	USER ID	SSUED TIME	ENCRYPTED WITH A GENERATED SECORT KEY (SECORT KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY SP)	

6651 Self



# FIG.107A

PAYMENT CARD REGISTRATION REQUES  REQUEST HEADER  CARD ID  CARD ID  ISSUED TIME  ISSUED TIME  ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY A)  SECRET KEY (SECRET KEY A)	⊢ .		- 10700	- 10701	-10702	- 10703	- 10704 - 10705		- 10706	- 10707	1	- 6505
	PAYMENT CARD REGISTRATION REQUEST	(Secondary Secondary Secon	PAYMENT CARD REGISTRATION S REQUEST HEADER	CARD ID	USERID	ISSUED TIME		SECRET KEY (SECRET KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S	PUBLIC KEY (PUBLIC KEY SP)	

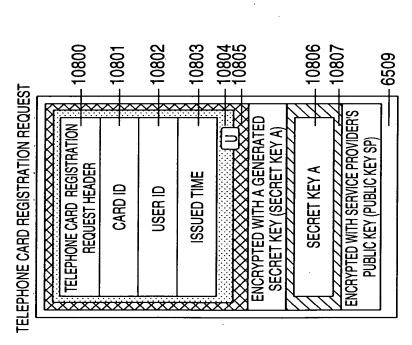
# FIG.108A

FIG.108B

594 7 7

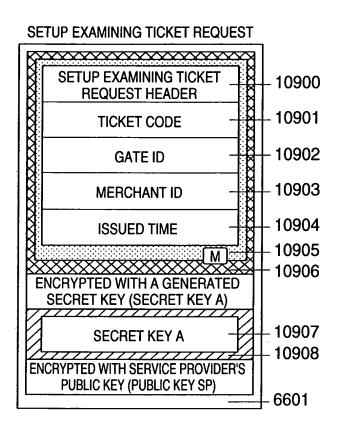
10809 10813 10814 414 -10815 - 10810 10812 10816 10811 6510 **TELEPHONE CARD CERTIFICATE ISSUING** ENCRYPTED WITH A GENERATED TELEPHONE CARD CERTIFICATE SECRET KEY (SECRET KEY B) PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH USER'S** SERVICE PROVIDER ID CARD DIGITAL SIGN REGISTERED CARD **ISSUING HEADER** SECRET KEY B CERTIFICATE SSUED TIME PRIVATE KEY

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# FIG.109A

FIG.109B



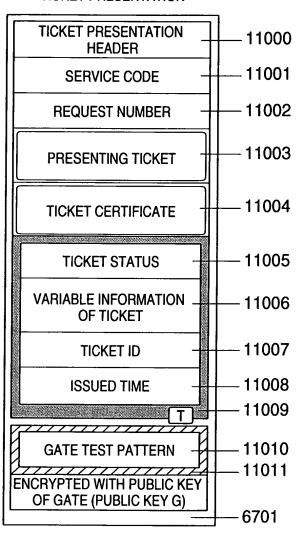
### SETUP EXAMINING TICKET SETUP EXAMINING TICKET - 10909 **HEADER** - 10910 **TICKET NAME** -10911 TICKET CODE **以** 10912 TICKET ISSUER ID - 10913 TERM OF VALIDITY +10914 **GATE PRIVATE KEY** - 10915 TICKET PUBLIC KEY TICKET EXAMINATION MODULE - 10916 - 10917 **SERVICE PROVIDER ID** - 10918 **ISSUED TIME** -10919 10920 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY B) - 10921 SECRET KEY B 10922 **ENCRYPTED WITH PUBLIC KEY OF GATE (PUBLIC KEY G)** 6602



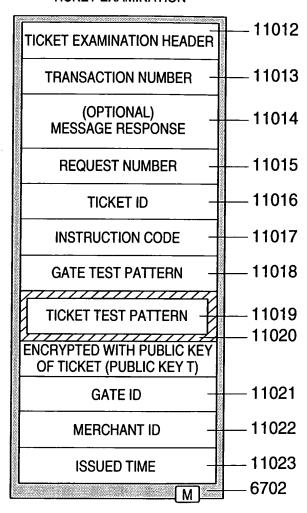
# FIG.110A

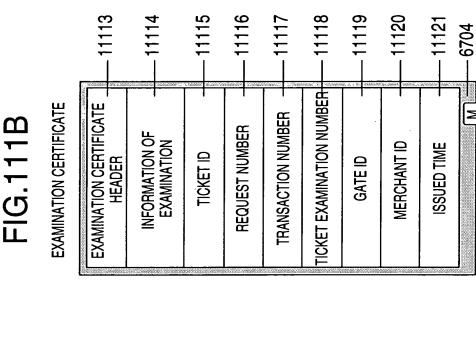
# **FIG.110B**

### **TICKET PRESENTATION**



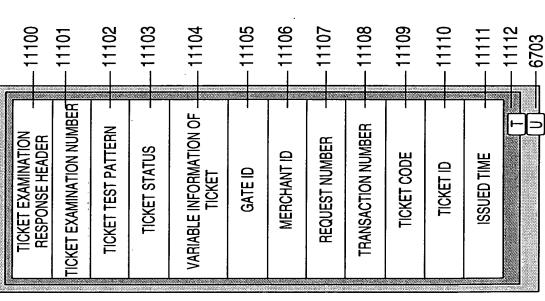
### **TICKET EXAMINATION**



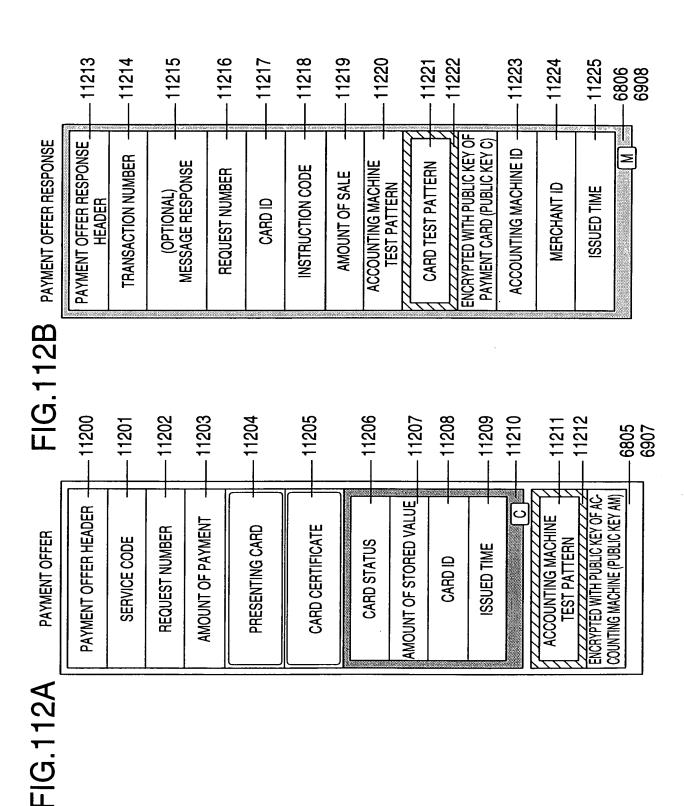


# FIG.111A

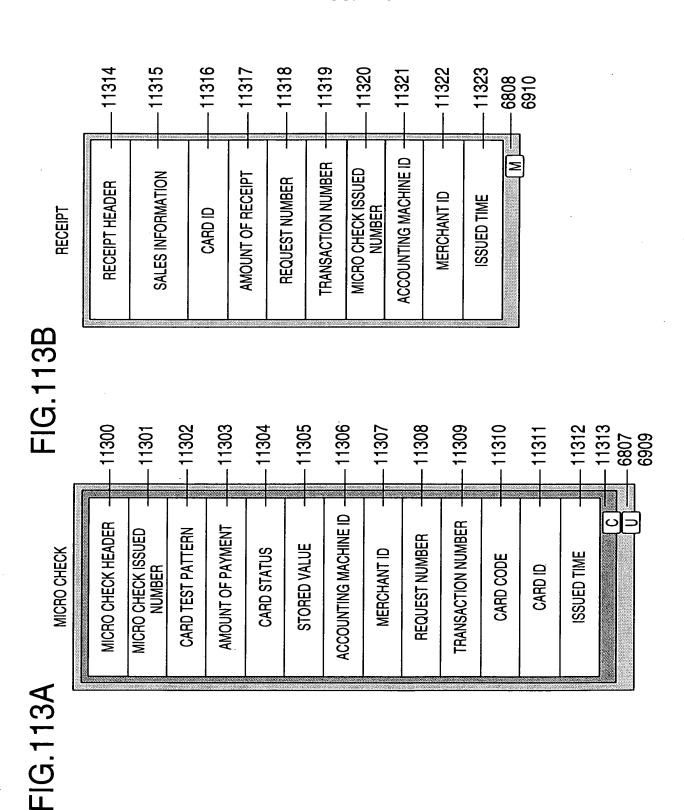
**FICKET EXAMINATION RESPONSE** 



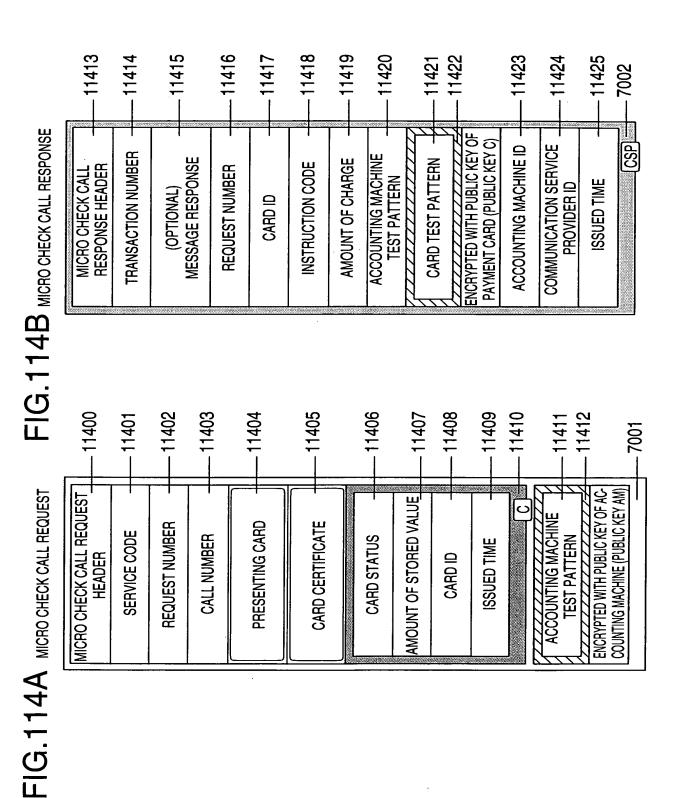
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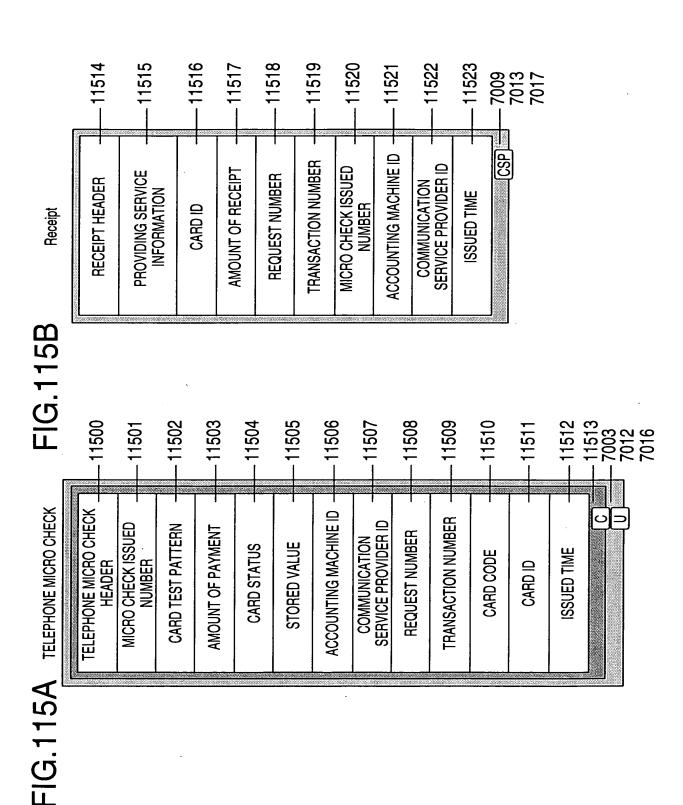
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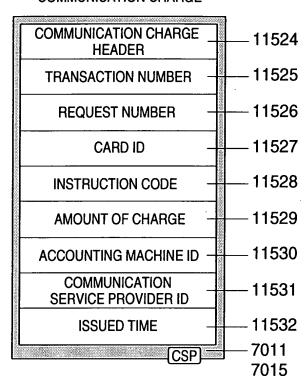


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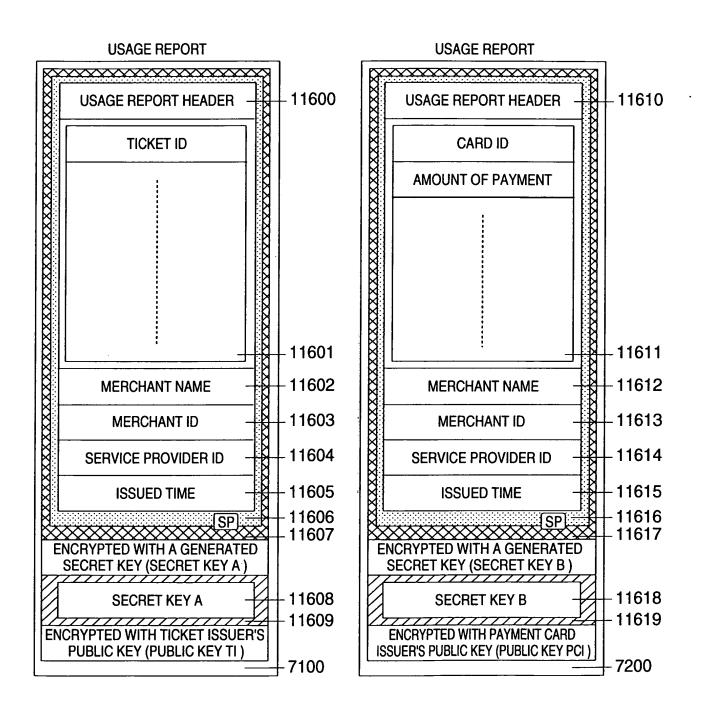
# FIG.115C

### **COMMUNICATION CHARGE**



# **FIG.116A**

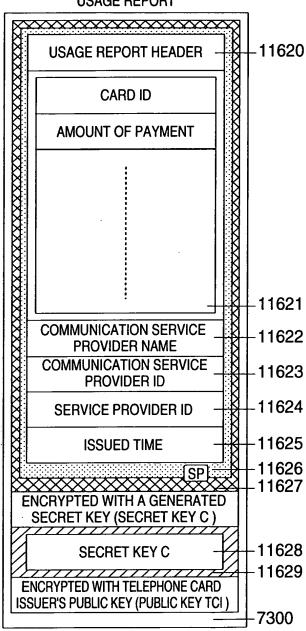
# **FIG.116B**



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# FIG.116C

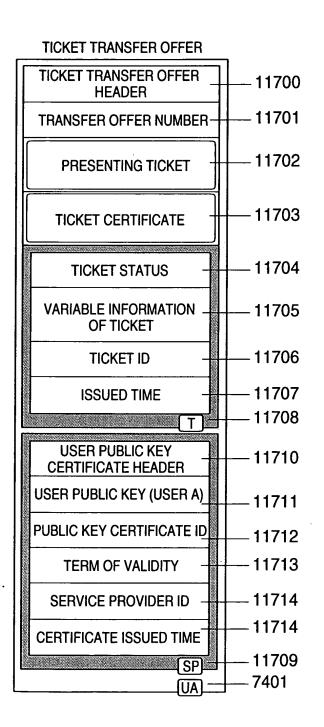
### **USAGE REPORT**





# FIG.117A

# FIG.117B



### TICKET TRANSFER OFFER RESPONSE TICKET TRANSFER OFFER \_11716 **RESPONSE HEADER** \_ 11717 ACCEPT NUMBER - 11718 TRANSFER OFFER NUMBER - 11719 TICKET ID - 11720 **ISSUED TIME USER PUBLIC KEY** - 11722 CERTIFICATE HEADER 11723 **USER PUBLIC KEY (USER B)** - 11724 PUBLIC KEY CERTIFICATE ID - 11725 **TERM OF VALIDITY** SERVICE PROVIDER ID - 11726 11727 **CERTIFICATE ISSUED TIME** - 11721 (SP) 7404 (UB)



# FIG.118A

# **FIG.118B**

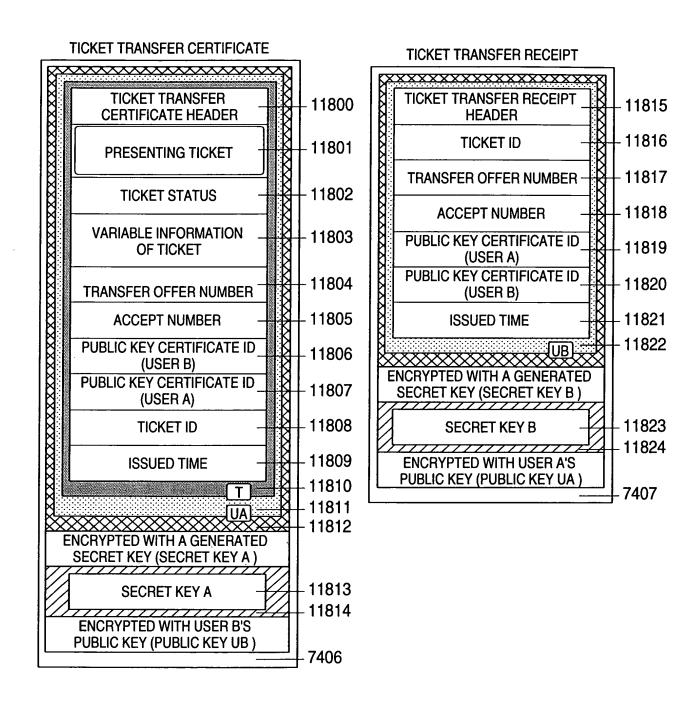
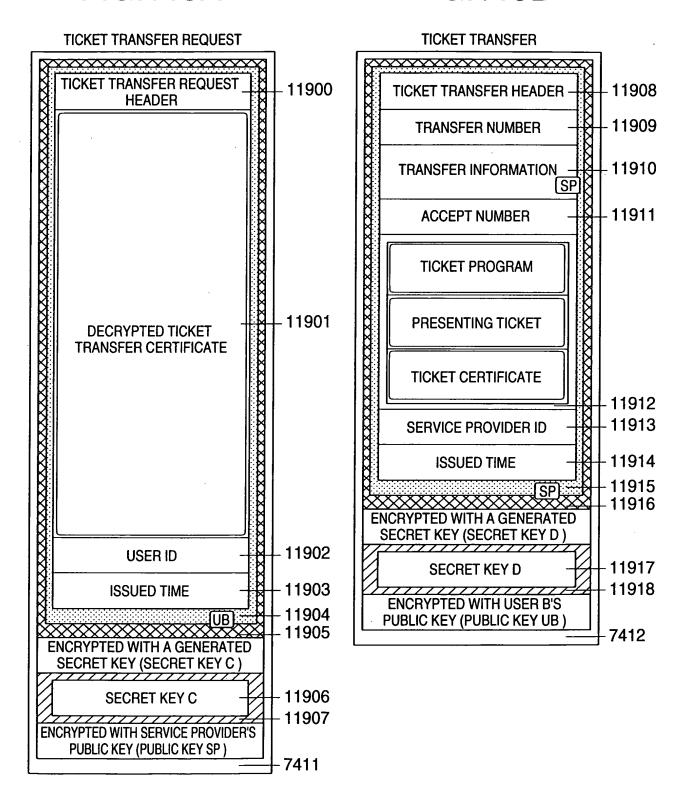








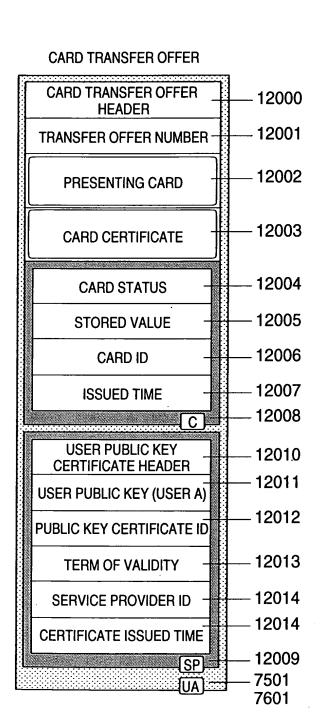
FIG.119B



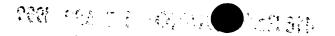


# FIG.120A

# **FIG.120B**

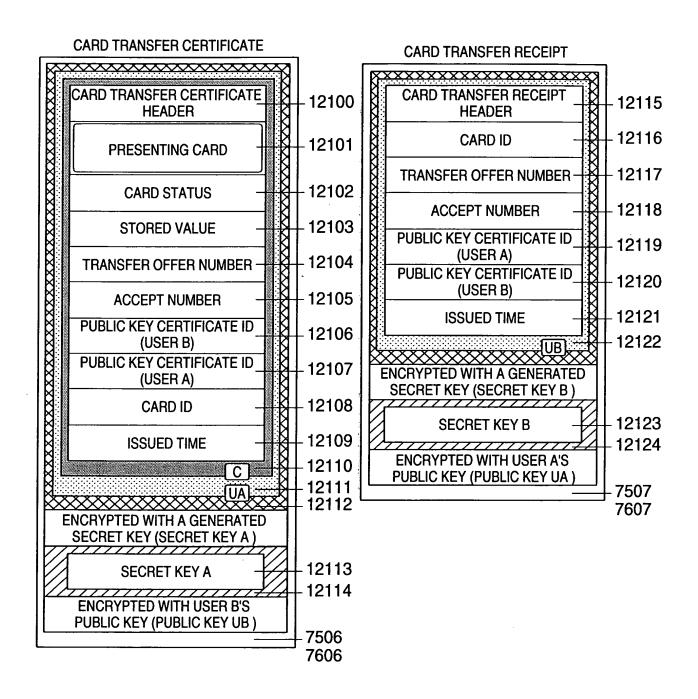


CARD TRANSFER OFFER RESPONSE						
	CARD TRANSFER OFFER _ RESPONSE HEADER	12016				
*********	ACCEPT NUMBER -	12017				
222222	TRANSFER OFFER NUMBER -	12018				
	CARD ID -	12019				
	ISSUED TIME -	12020				
	USER PUBLIC KEY CERTIFICATE HEADER	12022				
	USER PUBLIC KEY (USER B)	12023				
	PUBLIC KEY CERTIFICATE ID	12024				
	TERM OF VALIDITY	12025				
	SERVICE PROVIDER ID	12026				
	CERTIFICATE ISSUED TIME	12027				
	SP).	12021				
	UB) =	7504				
		7604				



# **FIG.121A**

# FIG.121B



# FIG.122A

### **CARD TRANSFER REQUEST**

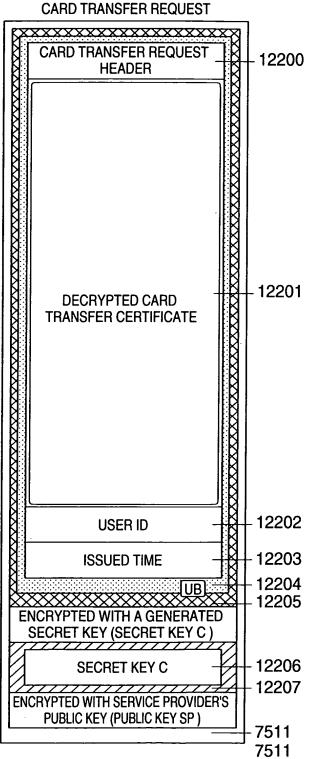
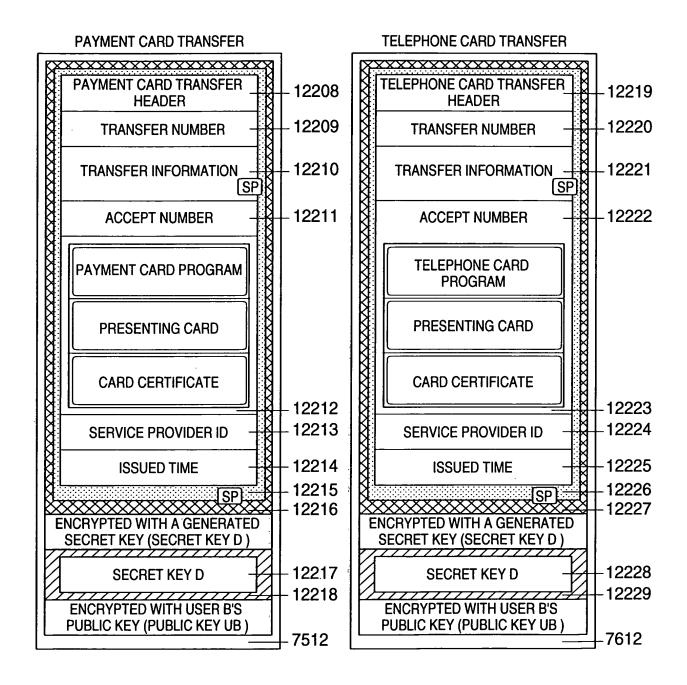


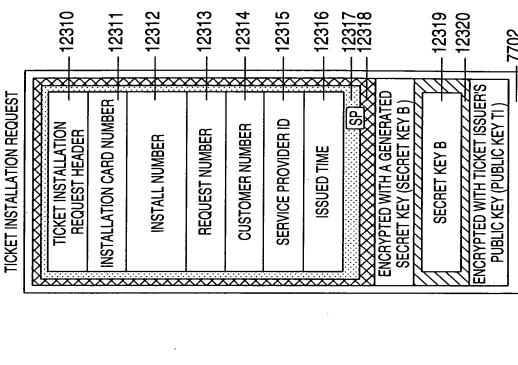
FIG.122B

FIG.122C



# FIG.123A

# FIG.123B

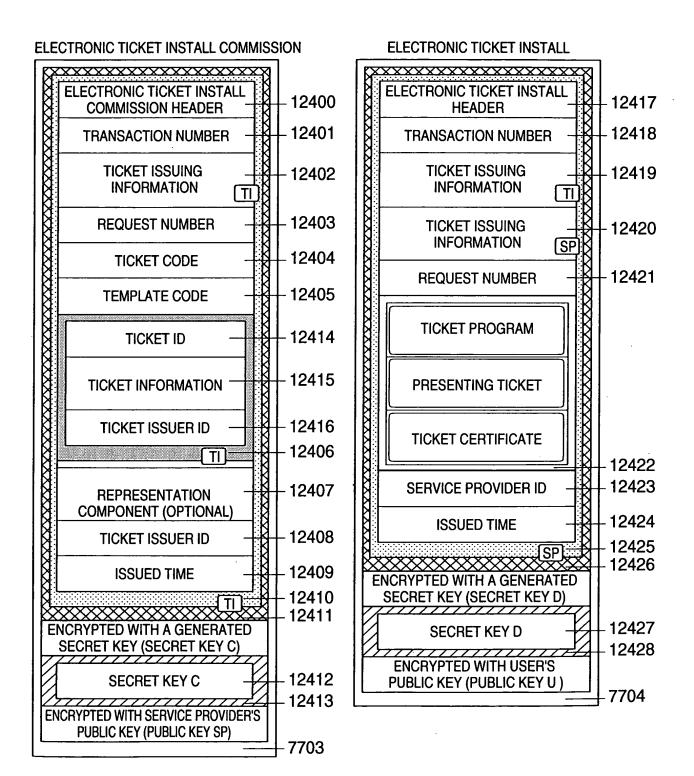


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JEST 12300	12301	12302	12303	12304	12305	12306 12307	12308	12309 7701
ELECTRONIC TICKET INSTALLATION REQUEST  ELECTRONIC TICKET  ELECTRONIC TICKET  ELECTRONIC TICKET  ELECTRONIC TICKET	INSTALLATION CARD NUMBER	INSTALL NUMBER	REQUEST NUMBER	USERID	ISSUED TIME	ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY SP.)

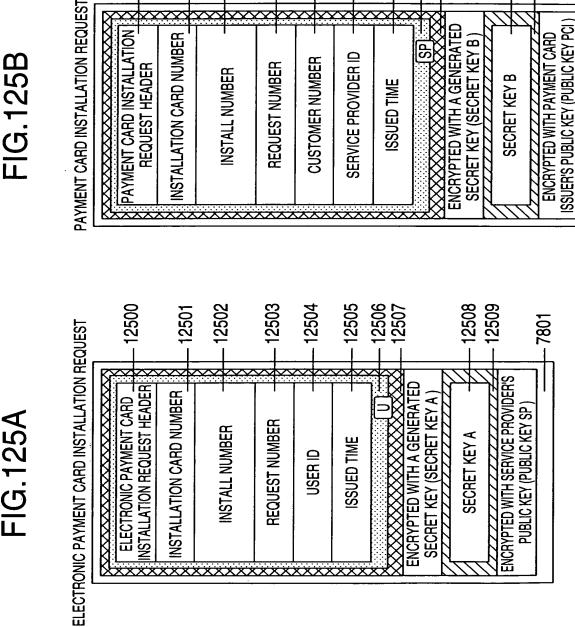
# **FIG.124A**

# FIG.124B



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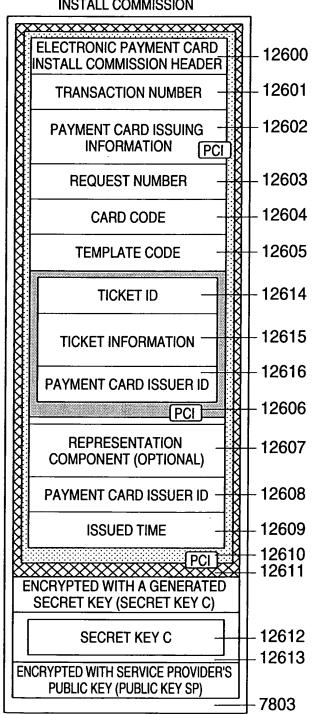
# FIG.125A



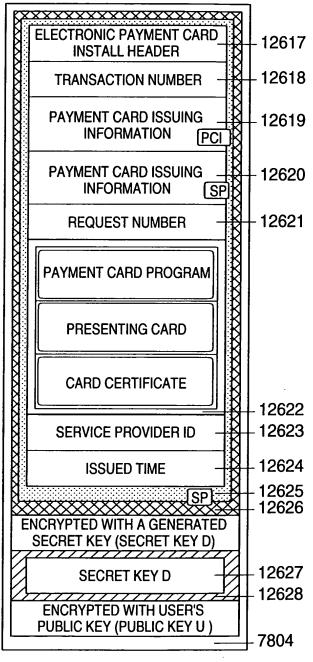
# FIG.126A

# FIG.126B

# ELECTRONIC PAYMENT CARD INSTALL COMMISSION



### **ELECTRONIC PAYMENT CARD INSTALL**



# FIG.127B

75	—12710	—12711	- 12712	<b>—12713</b>	—12714	12715	—12716	-12717		- 12719	- 12720	
TELEPHONE CARD INSTALLATION REQUEST	TELEPHONE CARD INSTALLATION REQUEST HEADER	INSTALLATION CARD NUMBER	INSTALL NUMBER	REQUEST NUMBER	CUSTOMER NUMBER	SERVICE PROVIDER ID	SSUED TIME		ENCRYPTED WITH A GENERATED SECRET KEY B)	SECRET KEY B	ENCRYPTED WITH TELEPHONE CARD ISSUERS PUBLIC KEY (PUBLIC KEY TCL)	OOF   OF   OF   OF   OF   OF   OF   O

12705

**SSUED TIME** 

12703

REQUEST NUMBER

**INSTALL NUMBER** 

12701

<del>Xxxxxxxxxxxxxxxxxx</del>

ELECTRONIC TELEPHONE CARD

FIG.127A

INSTALLATION REQUEST

ELECTRONIC TELEPHONE CARD INSTALLATION REQUEST HEADER

INSTALLATION CARD NUMBER

12704

**USER ID** 

12706 12707

ENCRYPTED WITH A GENERATED

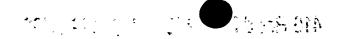
SECRET KEY (SECRET KEY A)

**ENCRYPTED WITH SERVICE PROVIDER'S** 

SECRET KEY A

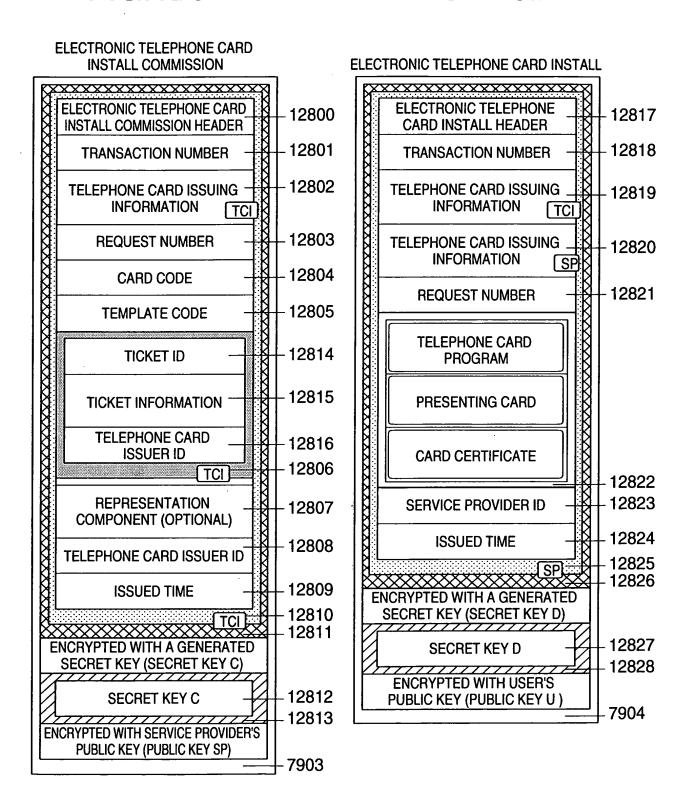
PUBLIC KEY (PUBLIC KEY SP.)

# 



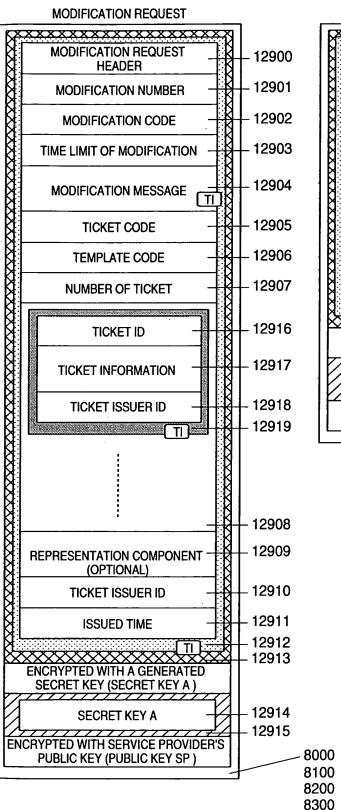
# **FIG.128A**

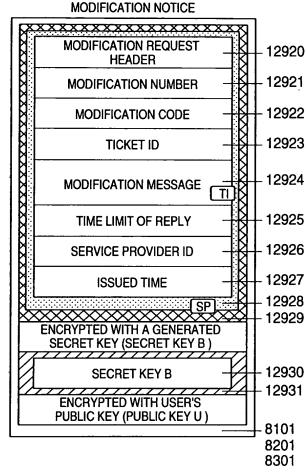
# FIG.128B

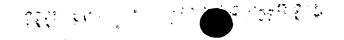


# FIG.129A

# FIG.129B

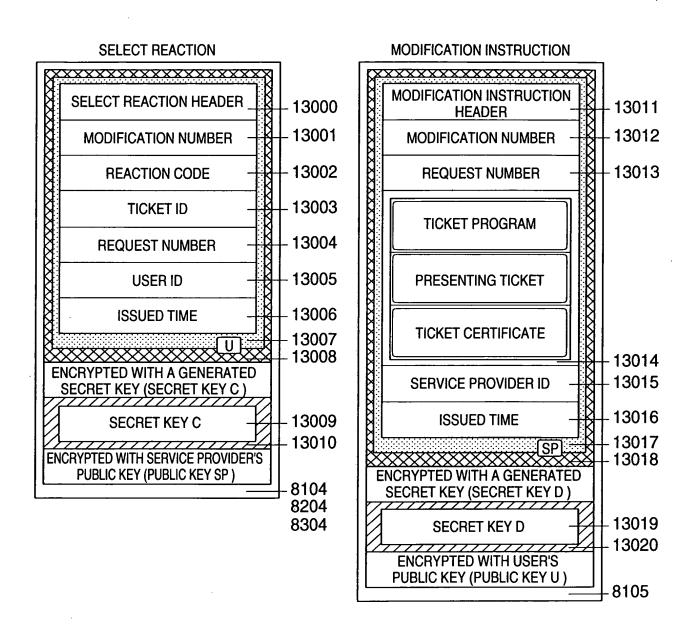


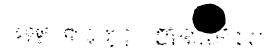




# **FIG.130A**

# **FIG.130B**





# FIG.131B

FIG.131A

REFUND REQUEST

ļ	,	13111	13112	+ 13113	13114	13115	13116	13117	<del>-</del>	+ 13119 + 13120	13121	13122 13122 8306	9306
REFUND COMMISSION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	REFUND COMMISSION HEADER	TRANSACTION NUMBER	AMOUNT OF REFUND	CLEARING OPTION	TICKET ID	REQUEST NUMBER	TICKET ISSUER ID	ISSUED TIME	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SECRET KEY F	ENCRYPTED WITH SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY SP.)	
ã l	XXXX XX		E   	<b>▼</b>	***	***	××××		***	ENCRYPT		ENCRYPT	

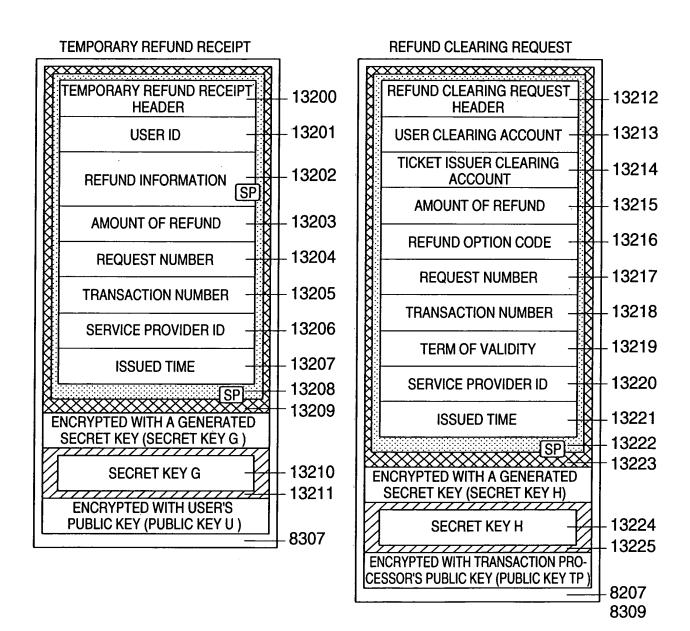
### 13102 13103 13105 13106 13107 13108 13104 13109 13110 13101 ENCRYPTED WITH TICKET ISSUER'S XXXXXXXXXXXXXXXXXX REFUND REQUEST HEADER — ENCRYPTED WITH A GENERATED PUBLIC KEY (PUBLIC KEY TI) MODIFICATION NUMBER SERVICE PROVIDER ID **CUSTOMER NUMBER** REQUEST NUMBER SECRET KEY E **ISSUED TIME TICKET ID**

# QQQ FEL TI GESTER CONTRACTOR

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# FIG.132A

FIG.132B



# FIG.133A

# FIG.133B

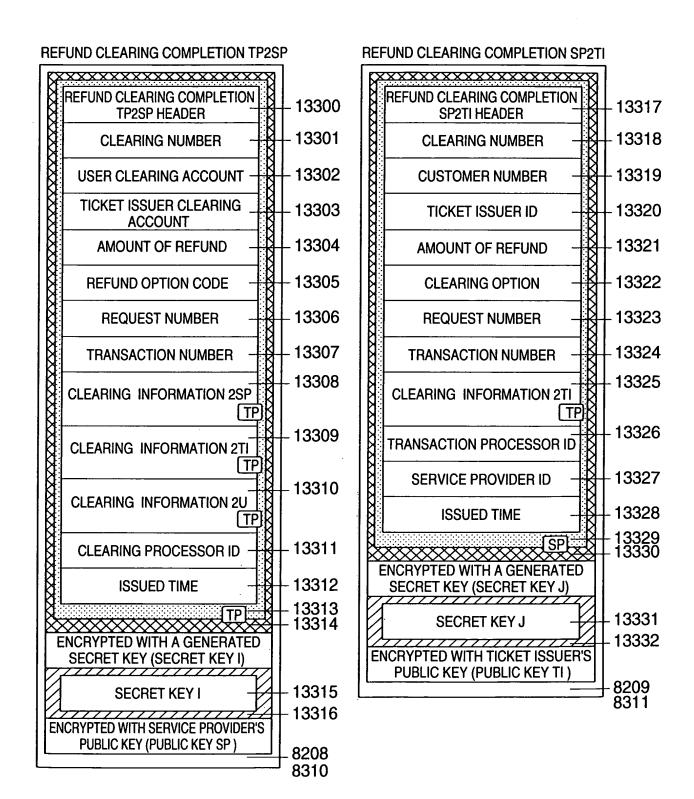


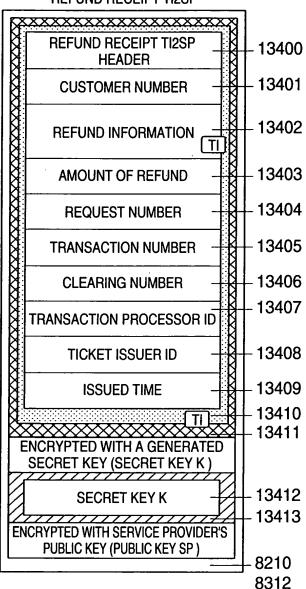


FIG.134A

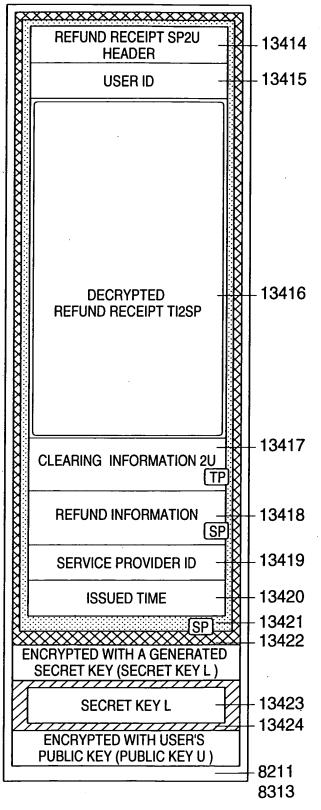
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FIG.134B









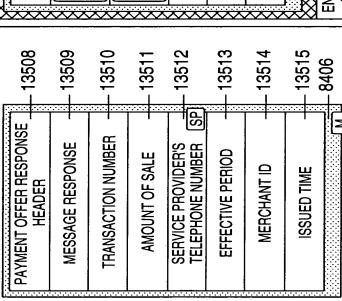
# 

# FIG.135A

**PAYMENT OFFER** 

# FIG.135B

PAYMENT OFFER RESPONSE



13503

REQUEST NUMBER

13504

**AMOUNT OF PAYMENT** 

13502

SERVICE PROVIDER ID

13500

**PAYMENT OFFER HEADER** 

-13501

PAYMENT SERVICE CODE

13505

PAYMENT OPTION CODE

-13506

**EFFECTIVE PERIOD** 

13507 -8405

**ISSUED TIME** 

# FIG.135C

**AUTHORIZATION REQUEST** 

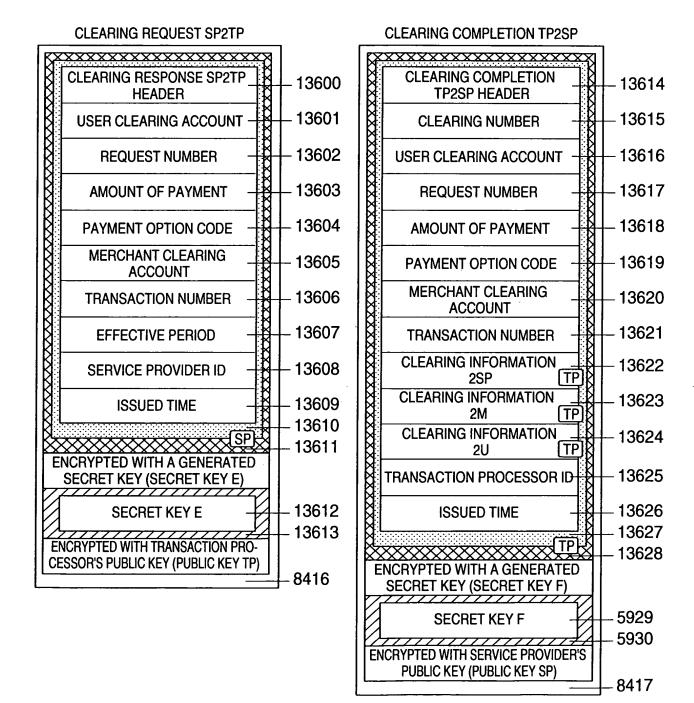
- 13516	- 8405	-8406	- 13517 st	178 129 -	-13519	13520 13521
AUTHORIZATION REQUEST	PAYMENT OFFER	PAYMENT OFFER RESPONSE	ACCOUNTING EQUIPMENT ID	MERCHANT ID	ISSUED TIME	

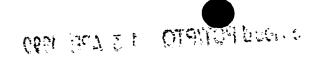
- 13521 - 13521	13522 13523	-8409
ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY A)	SECRET KEY A ENCRYPTED WITH SERVICE PROVIDER'S	PUBLIC KEY (PUBLIC KEY SP)

### 159/170 13545 3548 3544 13546 13547 13549 3550 3553 13552 3551 8405 8406 8415 ENCRYPTED WITH SERVICE PROVIDER'S ACCOUNTING EQUIPMENT ID-ENCRYPTED WITH A GENERATED PAYMENT OFFER RESPONSE SECRET KEY (SECRET KEY D) **CLEARING REQUEST M2SP AUTHORIZATION NUMBER CLEARING REQUEST M2SP** PUBLIC KEY (PUBLIC KEY SP) FIG.135F XXXXXXXXXXXXXXXX EFFECTIVE PERIOD PAYMENT OFFER SECRET KEY D MERCHANT ID SSUED TIME HEADER 13533 13534 13535 13536 13538 13540 13542 13532 13539 13543 3531 13537 13541 ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY C) **AUTHORIZATION RESPONSE AUTHORIZATION RESPONSE** PUBLIC KEY (PUBLIC KEY M) **ENCRYPTED WITH MERCHANT AUTHORIZATION NUMBER AUTHORIZATION RESULT** TRANSACTION NUMBER **USER PERSONAL DATA** FIG.135E SERVICE PROVIDER ID **CUSTOMER NUMBER EFFECTIVE PERIOD** SECRET KEY C **ISSUED TIME** 13526 13527 3524 13525 3528 3529 3530 8405 8406 8410 ENCRYPTED WITH A GENERATED ENCRYPTED WITH SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY SP) XXXXXXXXXXXXXXXXX PAYMENT REQUEST HEADER PAYMENT OFFER RESPONSE SECRET KEY (SECRET KEY B) FIG. 135D PAYMENT REQUEST **PAYMENT OFFER** SECRET KEY B SSUED TIME **USER ID**

# **FIG.136A**

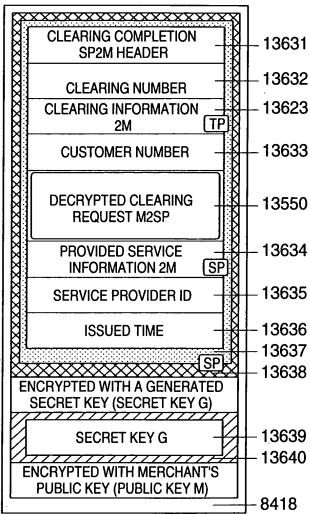
# **FIG.136B**





# FIG.136C

### **CLEARING COMPLETION SP2M**



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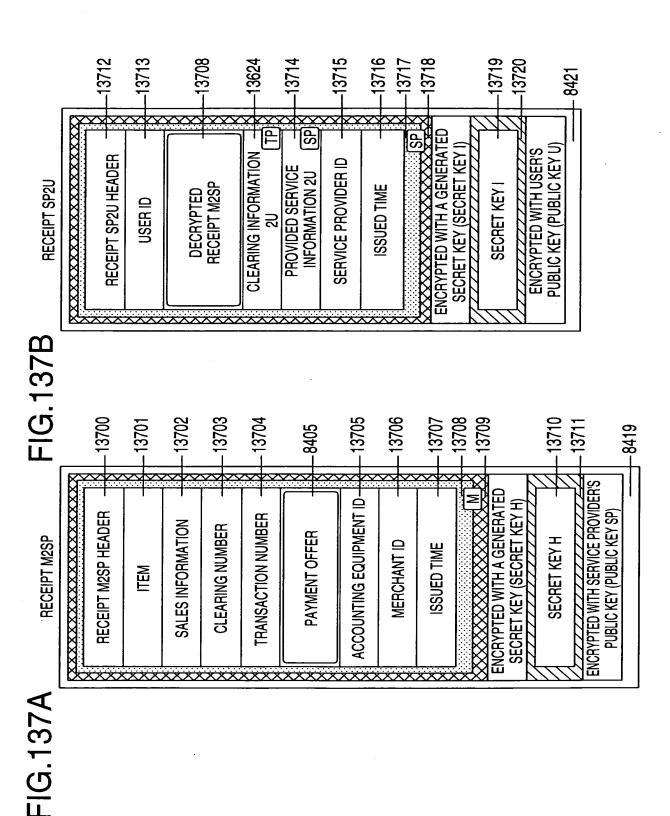
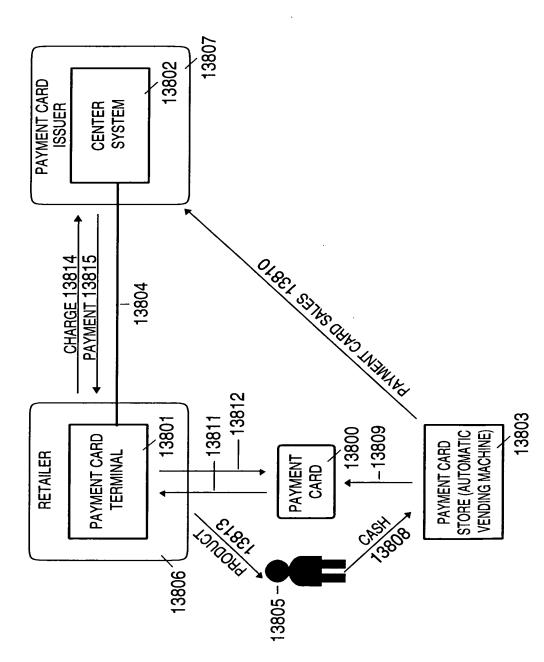


FIG.138A



esci centin (\*\*\*)

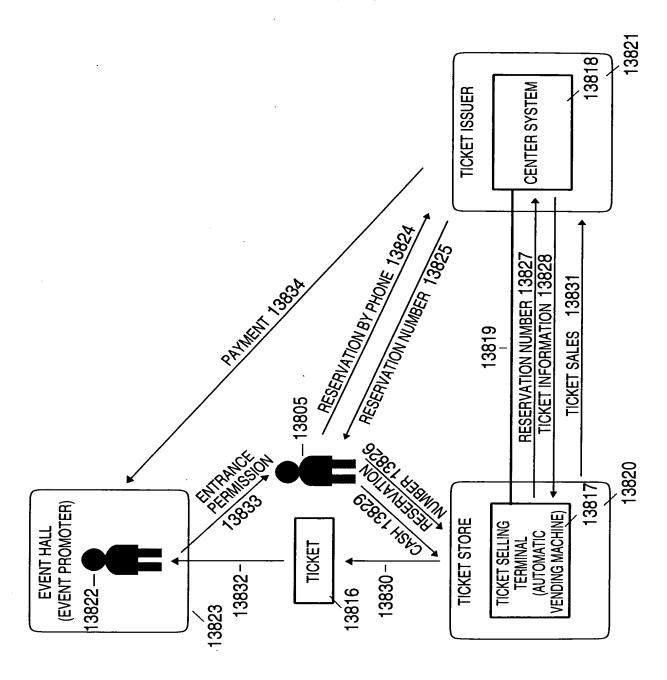
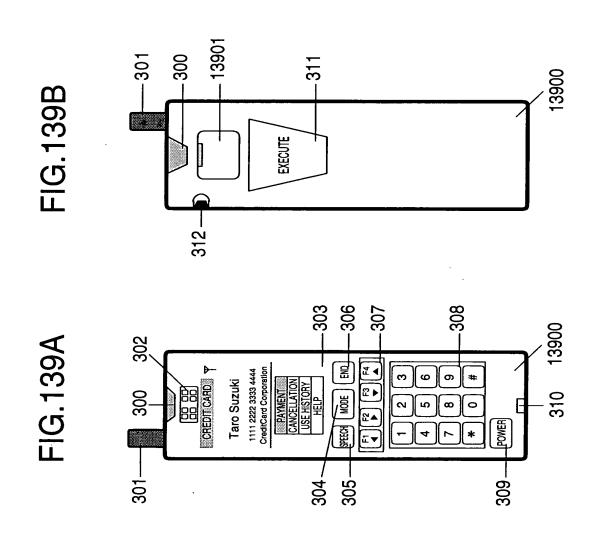


FIG.138B

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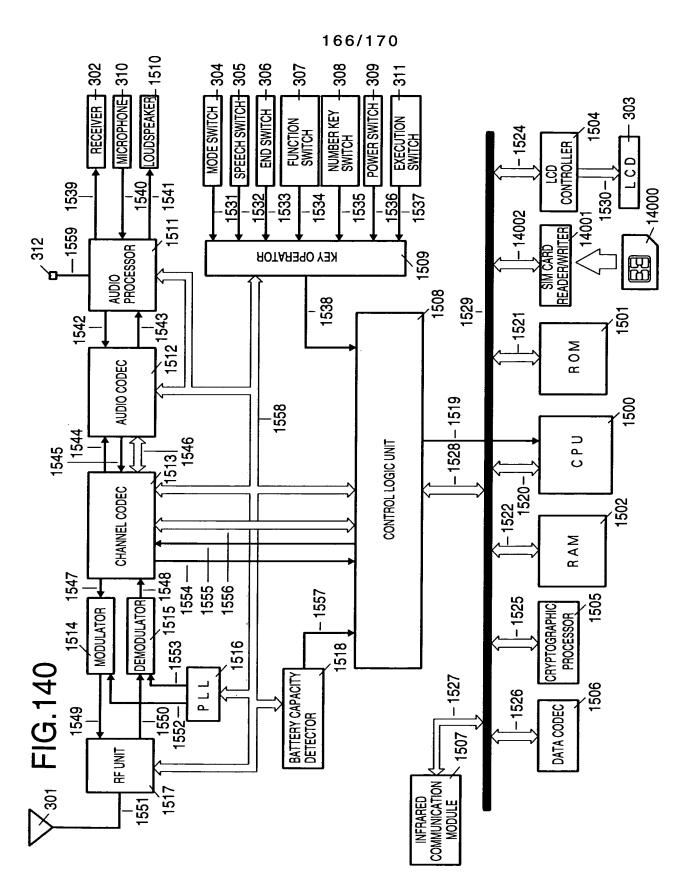




FIG.141B

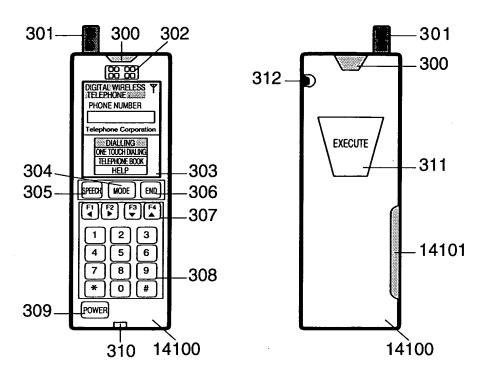
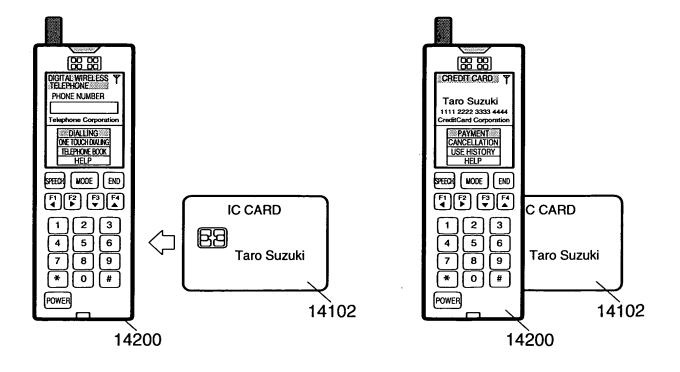
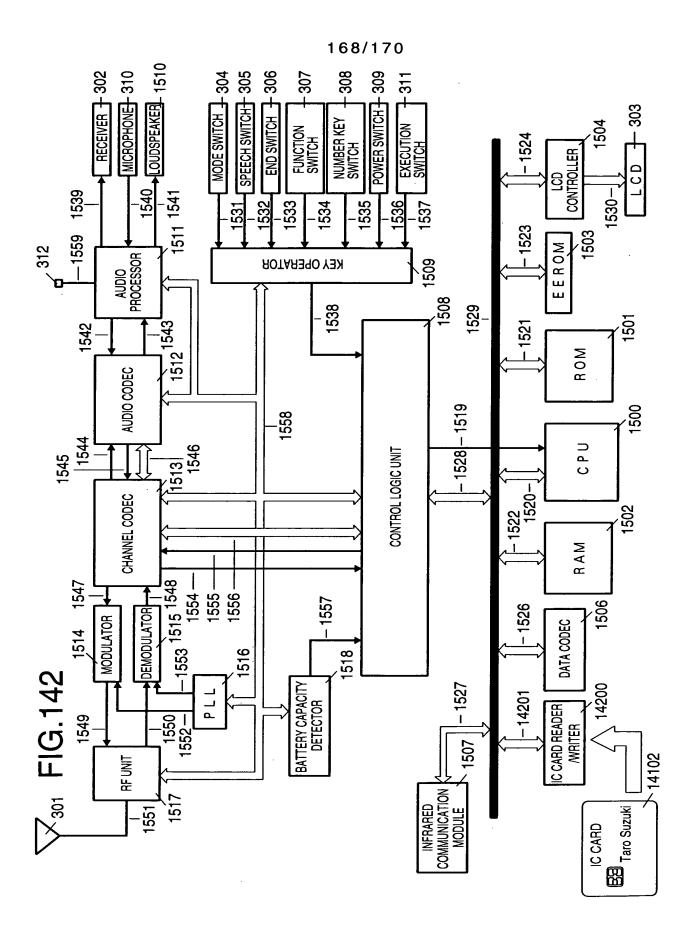


FIG.141C

FIG.141D





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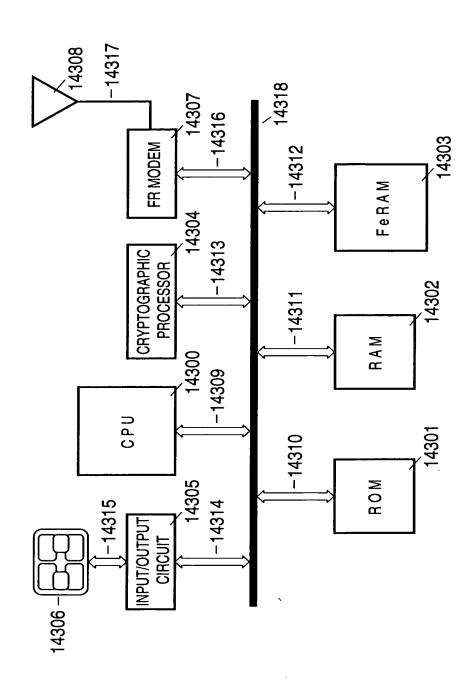


FIG.143





# FIG.144

SECURITY AREA 14400
FUNDAMENTAL PROGRAM OBJECTS AREA 14401
SERVICE DATA AREA 14402
USER AREA 14403
TEMPORARY AREA 14404

FeRAM 14303